

Report of Test LL10507

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer refitted with T5 lamps. Cat No. Not specified.

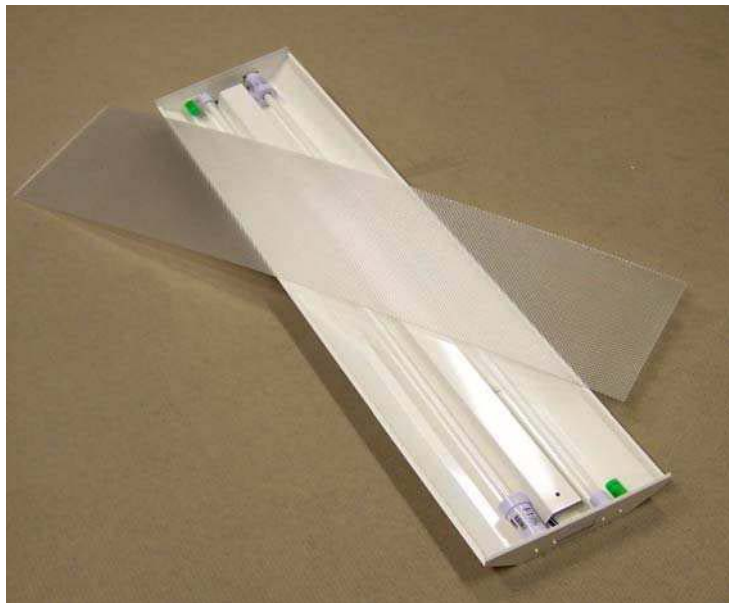
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.

Two Philips TL5 HE 28W/830 T5 fluorescent lamps with Save It Easy Inline T5 adapter, lamps at 106mm centres.

Integral Atco.Tridonic EC36/40 240V magnetic ballasts, ballast were in circuit for the test.

Lum. opening 275 x 1175mm. K12 lens panel inlay. This is a retest of LL10506 with adapters and T5 lamps fitted.

Total emitted flux from luminaire = 2941 Lumen, Power = 60.8W, Efficacy = 48 Lumen/W.

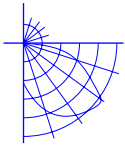


Performance Summary

Light Output Ratio	57.5 %
Luminaire Power	60.8 W
SHR Nominal	1.25
SHR Maximum	1.39

PREPARED FOR : Ilum-a-Lite, 9/123 Epping Road, North Ryde, NSW





Certified Test Report No. LL10507

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer refitted with T5 lamps. Cat No. Not specified.

Mild steel body with control gear mounted under central spine. All surfaces powder coated white.

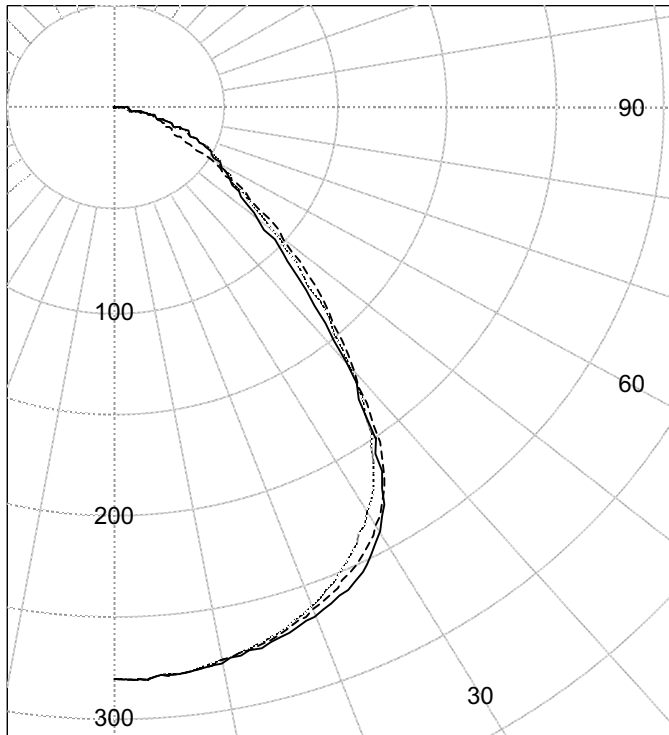
Two Philips TL5 HE 28W/830 T5 fluorescent lamps with Save It Easy Inline T5 adapter, lamps at 106mm centres.

Integral Atco.Tridonic EC36/40 240V magnetic ballasts, ballast were in circuit for the test.

Lum. opening 275 x 1175mm. K12 lens panel inlay. This is a retest of LL10506 with adapters and T5 lamps fitted.

Total emitted flux from luminaire = 2941 Lumen, Power = 60.8W, Efficacy = 48 Lumen/W.

LEGEND : C0-Solid, C45-Dashed, C90-Grey (cd / klm)



INTENSITY SUMMARY (cd / klm)

Gamma	C-Plane					Output Lumens
	C0	C22.5	C45	C67.5	C90	
0.0	281	281	281	281	281	
5.0	280	280	280	279	279	27
10.0	276	276	276	276	276	
15.0	272	271	270	269	269	76
20.0	265	264	262	260	260	
25.0	257	255	251	248	247	116
30.0	240	239	237	232	229	
35.0	207	210	210	207	202	128
40.0	163	167	169	168	166	
45.0	117	124	132	129	125	98
50.0	85	93	100	96	91	
55.0	66	71	71	72	68	63
60.0	54	51	46	51	55	
65.0	45	37	31	36	45	38
70.0	34	27	25	27	35	
75.0	24	20	19	20	24	22
80.0	14	14	13	14	14	
85.0	7	7	7	7	7	7
90.0	0	0	0	0	0	

AVERAGE LUMINANCE (cd / sq.m / klm)

Gamma	C0	C45	C90
45.0	513	579	546
55.0	354	381	366
65.0	333	228	333
75.0	282	224	281
85.0	248	262	248

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	% Lamp	% Luminaire
0-30	219	21.9	38.0
0-40	347	34.7	60.3
0-60	508	50.8	88.3
0-90	575	57.5	100.0
40-90	228	22.8	39.7
60-90	67	6.7	11.7
90-180	0	0.0	0.0
0-180	575	57.5	100.0

Light Output Ratio = 57.5 %

SHR-NOM = 1.25

Calculated using the TM5

SHR-MAX = 1.39

fine grid method.

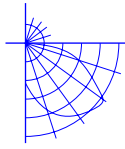
CERTIFIED BY: *E Southgate*

Eric Southgate
Authorised Signatory

Date of test
Date of report

28-Sep-2006
28-Sep-2006





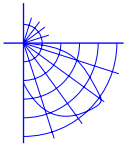
Certified Test Report No. LL10507

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer refitted with T5 lamps. Cat No. Not specified.
 Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
 Two Philips TL5 HE 28W/830 T5 fluorescent lamps with Save It Easy Inline T5 adapter, lamps at 106mm centres.
 Integral Atco.Tridonic EC36/40 240V magnetic ballasts, ballast were in circuit for the test.
 Lum. opening 275 x 1175mm. K12 lens panel inlay. This is a retest of LL10506 with adapters and T5 lamps fitted.
 Total emitted flux from luminaire = 2941 Lumen, Power = 60.8W, Efficacy = 48 Lumen/W.

INTENSITY DATA (cd / klm)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	281	281	281	281	281
2.5	280	280	280	280	280
5.0	280	280	280	279	279
7.5	278	278	278	278	278
10.0	276	276	276	276	276
12.5	274	274	273	273	273
15.0	272	271	270	269	269
17.5	269	268	267	265	265
20.0	265	264	262	260	260
22.5	262	260	257	255	254
25.0	257	255	251	248	247
27.5	250	249	245	241	239
30.0	240	239	237	232	229
32.5	226	228	226	222	218
35.0	207	210	210	207	202
37.5	187	188	190	189	185
40.0	163	167	169	168	166
42.5	138	145	149	147	144
45.0	117	124	132	129	125
47.5	99	107	115	111	108
50.0	85	93	100	96	91
52.5	74	81	85	83	78
55.0	66	71	71	72	68
57.5	59	60	57	61	60
60.0	54	51	46	51	55
62.5	50	43	37	43	50
65.0	45	37	31	36	45
67.5	40	32	27	31	41
70.0	34	27	25	27	35
72.5	29	23	22	23	30
75.0	24	20	19	20	24
77.5	18	17	15	17	19
80.0	14	14	13	14	14
82.5	11	11	10	11	11
85.0	7	7	7	7	7
87.5	3	3	4	3	3
90.0	0	0	0	0	0





Certified Test Report No. LL10507

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer refitted with T5 lamps. Cat No. Not specified.

Mild steel body with control gear mounted under central spine. All surfaces powder coated white.

Two Philips TL5 HE 28W/830 T5 fluorescent lamps with Save It Easy Inline T5 adapter, lamps at 106mm centres.

Integral Atco.Tridonic EC36/40 240V magnetic ballasts, ballast were in circuit for the test.

Lum. opening 275 x 1175mm. K12 lens panel inlay. This is a retest of LL10506 with adapters and T5 lamps fitted.

Total emitted flux from luminaire = 2941 Lumen, Power = 60.8W, Efficacy = 48 Lumen/W.

Utilization factors UF(F)

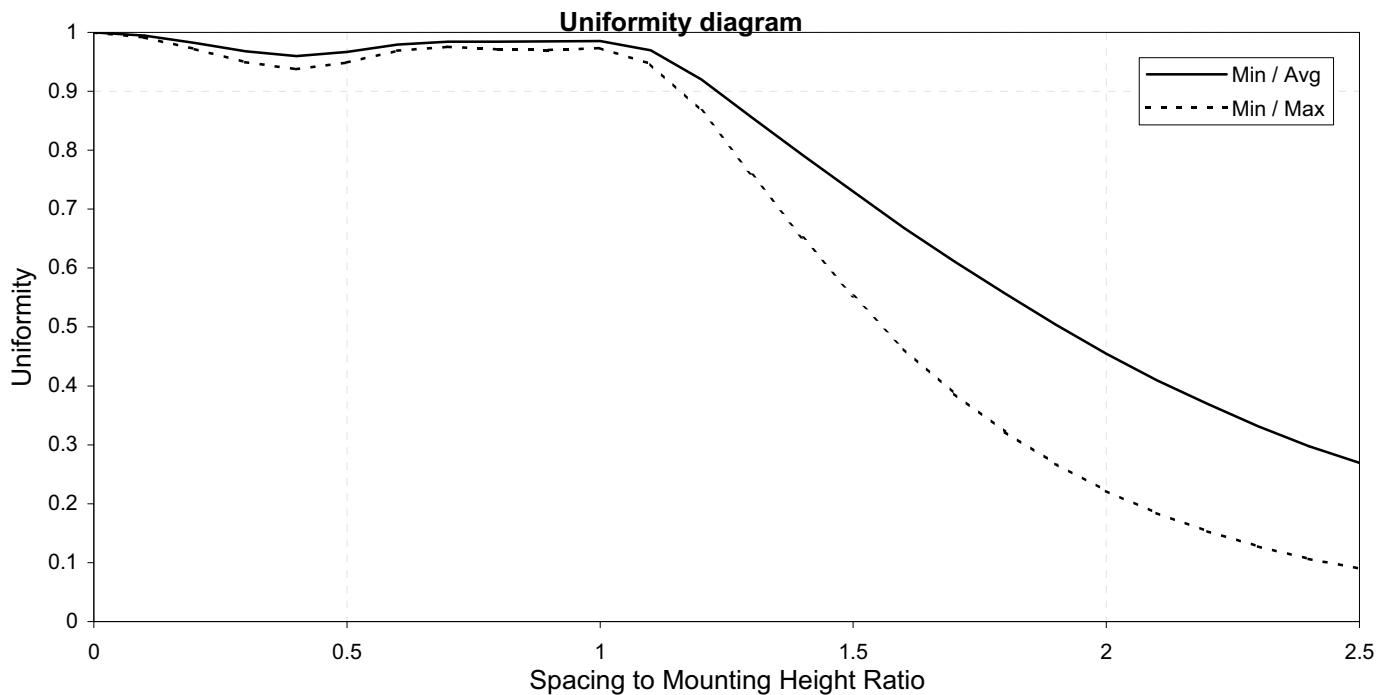
SHR NOM = 1.25											
Room Reflectance.			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.39	0.44	0.48	0.50	0.54	0.56	0.57	0.60	0.61
		0.30	0.35	0.40	0.44	0.47	0.51	0.53	0.55	0.58	0.59
		0.10	0.32	0.37	0.41	0.44	0.48	0.51	0.53	0.56	0.58
0.50	0.50	0.20	0.38	0.43	0.46	0.49	0.52	0.54	0.55	0.57	0.59
		0.30	0.34	0.40	0.43	0.46	0.49	0.52	0.53	0.56	0.57
		0.10	0.32	0.37	0.41	0.44	0.47	0.50	0.52	0.54	0.56
0.30	0.50	0.20	0.37	0.42	0.45	0.47	0.50	0.52	0.54	0.55	0.56
		0.30	0.34	0.39	0.42	0.45	0.48	0.50	0.52	0.54	0.55
		0.10	0.32	0.37	0.40	0.43	0.46	0.49	0.51	0.53	0.54
0.00	0.00	0.00	0.30	0.35	0.39	0.41	0.45	0.47	0.48	0.50	0.52

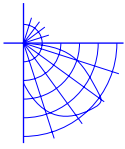
Rating : Photometrically tested without ceiling board.

Multiply values by service correction factors.

Calculated in accordance with CIBS Technical Memorandum No. 5 1980 using the fine grid method.

Luminaire discretisation employed. Ceiling/Wall/Floor reflectances not used in calculations.





Certified Test Report No. LL10507

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer refitted with T5 lamps. Cat No. Not specified.

Mild steel body with control gear mounted under central spine. All surfaces powder coated white.

Two Philips TL5 HE 28W/830 T5 fluorescent lamps with Save It Easy Inline T5 adapter, lamps at 106mm centres.

Integral Atco.Tridonic EC36/40 240V magnetic ballasts, ballast were in circuit for the test.

Lum. opening 275 x 1175mm. K12 lens panel inlay. This is a retest of LL10506 with adapters and T5 lamps fitted.

Total emitted flux from luminaire = 2941 Lumen, Power = 60.8W, Efficacy = 48 Lumen/W.

Test Distance: 8.0 metres
Test Temperature: 25.2 degrees Celsius

Significance: This laboratory has no control over the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

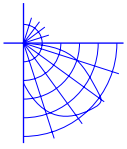
Special Notes: The Intensity values contained in this report are based on the lamp(s) delivering 1000.0 lumens. When using these values in calculations the appropriate Ballast Factor and Manufacturer's rated lumens MUST be taken into account.
It should also be noted that prorating the lumen output for the use of other lamp/ballast combinations, or for use in different environmental conditions, than that tested may produce erroneous results.
The generic term "LOR" is used in this report, it denotes the "Light Output Ratio Luminaire" as defined in Australian Standard AS1680, Part 3, 1991, Section 1.3.9.
This report is free of erasures and corrections.
Photometric intensity values are reported using the CIE Cgamma coordinate system as described in CIE Publication number 121.

Uncertainties: At the 95% confidence interval with a factor $k = 2$, the uncertainties for this report are :-

Temperature	+/- 1 degree Celsius
Light Output Ratio	+/- 4%
Luminous Intensity	+/- 4%
Angular displacement	+/- 0.25 degrees.

Testing Procedure: Tested in accordance with the applicable sections of CIE Publication Number 24 and Australian Standard AS1680, Part 3, 1991.





Report of Test LL10506

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two OSRAM L36/840 T8 fluorescent lamps at 106mm centres.
Integral Atco.Tridonic EC36/40 240V magnetic ballasts.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3392 Lumen, Power = 86.6W, Efficacy = 39 Lumen/W.

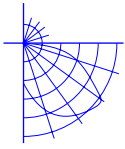


Performance Summary

Light Output Ratio	56.0 %
Luminaire Power	86.6 W
SHR Nominal	1.25
SHR Maximum	1.39

PREPARED FOR : Ilum-a-Lite, 9/123 Epping Road, North Ryde, NSW

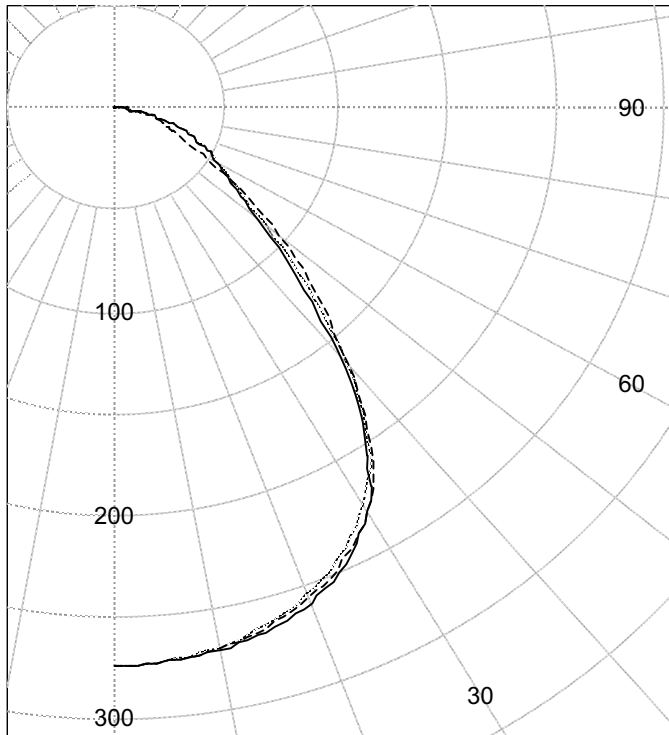




Certified Test Report No. LL10506

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two OSRAM L36/840 T8 fluorescent lamps at 106mm centres.
Integral Atco.Tridonic EC36/40 240V magnetic ballasts.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3392 Lumen, Power = 86.6W, Efficacy = 39 Lumen/W.

LEGEND : C0-Solid, C45-Dashed, C90-Grey (cd / klm)



INTENSITY SUMMARY (cd / klm)

Gamma	C-Plane					Output Lumens
	C0	C22.5	C45	C67.5	C90	
0.0	274	274	274	274	274	
5.0	273	273	273	273	273	26
10.0	270	270	270	269	269	
15.0	266	265	265	263	263	75
20.0	259	258	256	255	254	
25.0	248	247	245	243	242	113
30.0	229	229	229	227	225	
35.0	198	200	203	203	199	124
40.0	158	161	164	164	163	
45.0	115	121	129	126	124	96
50.0	84	91	97	95	89	
55.0	64	69	69	70	66	62
60.0	53	50	45	50	53	
65.0	44	36	30	35	44	37
70.0	34	27	24	26	34	
75.0	23	19	18	20	23	21
80.0	14	14	12	14	14	
85.0	7	7	7	7	7	7
90.0	0	0	0	0	0	

AVERAGE LUMINANCE (cd / sq.m / klm)

Gamma	C0	C45	C90
45.0	505	563	541
55.0	345	373	356
65.0	323	221	325
75.0	276	218	278
85.0	237	253	250

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	% Lamp	% Luminaire
0-30	213	21.3	38.0
0-40	337	33.7	60.2
0-60	495	49.5	88.3
0-90	560	56.0	100.0
40-90	223	22.3	39.8
60-90	65	6.5	11.7
90-180	0	0.0	0.0
0-180	560	56.0	100.0

Light Output Ratio = 56.0 %

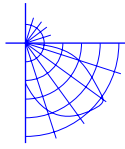
SHR-NOM = 1.25
SHR-MAX = 1.39

Calculated using the TM5
fine grid method.

CERTIFIED BY: *E Southgate*

Eric Southgate
Authorised Signatory

Date of test 27-Aug-2006
Date of report 28-Sep-2006



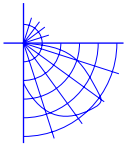
Certified Test Report No. LL10506

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two OSRAM L36/840 T8 fluorescent lamps at 106mm centres.
Integral Atco.Tridonic EC36/40 240V magnetic ballasts.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3392 Lumen, Power = 86.6W, Efficacy = 39 Lumen/W.

INTENSITY DATA (cd / klm)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	274	274	274	274	274
2.5	274	274	274	274	274
5.0	273	273	273	273	273
7.5	272	272	272	271	271
10.0	270	270	270	269	269
12.5	268	268	267	267	266
15.0	266	265	265	263	263
17.5	263	262	261	260	259
20.0	259	258	256	255	254
22.5	254	253	251	249	248
25.0	248	247	245	243	242
27.5	239	239	238	236	234
30.0	229	229	229	227	225
32.5	215	217	218	216	214
35.0	198	200	203	203	199
37.5	179	182	184	185	182
40.0	158	161	164	164	163
42.5	135	140	145	144	143
45.0	115	121	129	126	124
47.5	97	105	112	109	105
50.0	84	91	97	95	89
52.5	72	79	83	81	76
55.0	64	69	69	70	66
57.5	57	59	56	60	59
60.0	53	50	45	50	53
62.5	49	42	36	42	49
65.0	44	36	30	35	44
67.5	39	31	27	30	39
70.0	34	27	24	26	34
72.5	28	23	22	23	29
75.0	23	19	18	20	23
77.5	18	17	15	17	18
80.0	14	14	12	14	14
82.5	10	10	10	10	10
85.0	7	7	7	7	7
87.5	3	3	3	3	3
90.0	0	0	0	0	0





Certified Test Report No. LL10506

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer. Cat No. Not specified.

Mild steel body with control gear mounted under central spine. All surfaces powder coated white.

Two OSRAM L36/840 T8 fluorescent lamps at 106mm centres.

Integral Atco.Tridonic EC36/40 240V magnetic ballasts.

Luminous opening 275 x 1175mm. K12 lens panel inlay.

Total emitted flux from luminaire = 3392 Lumen, Power = 86.6W, Efficacy = 39 Lumen/W.

Utilization factors UF(F)

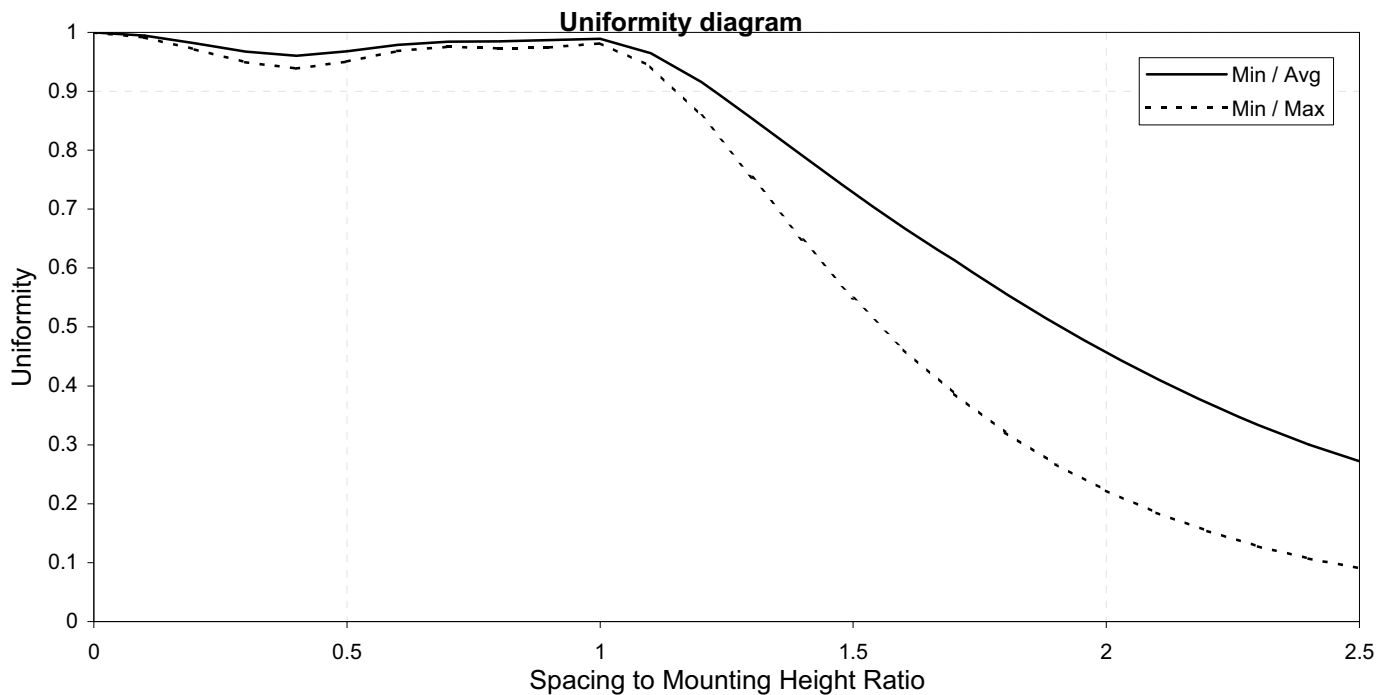
SHR NOM = 1.25											
Room Reflectance.			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.38	0.43	0.46	0.49	0.52	0.54	0.56	0.58	0.59
		0.30	0.34	0.39	0.43	0.46	0.49	0.52	0.54	0.56	0.58
		0.10	0.31	0.36	0.40	0.43	0.47	0.50	0.52	0.54	0.56
0.50	0.50	0.20	0.37	0.42	0.45	0.47	0.50	0.53	0.54	0.56	0.57
		0.30	0.33	0.39	0.42	0.45	0.48	0.50	0.52	0.54	0.56
		0.10	0.31	0.36	0.40	0.42	0.46	0.49	0.50	0.53	0.54
0.30	0.50	0.20	0.36	0.41	0.44	0.46	0.49	0.51	0.52	0.54	0.55
		0.30	0.33	0.38	0.41	0.44	0.47	0.49	0.51	0.53	0.54
		0.10	0.31	0.36	0.39	0.42	0.45	0.48	0.49	0.51	0.53
0.00	0.00	0.00	0.30	0.35	0.38	0.40	0.43	0.45	0.47	0.49	0.50

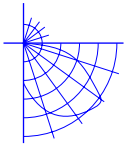
Rating : Photometrically tested without ceiling board.

Multiply values by service correction factors.

Calculated in accordance with CIBS Technical Memorandum No. 5 1980 using the fine grid method.

Luminaire discretisation employed. Ceiling/Wall/Floor reflectances not used in calculations.





Certified Test Report No. LL10506

Sample 1200x300mm (nom), 2x36W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two OSRAM L36/840 T8 fluorescent lamps at 106mm centres.
Integral Atco.Tridonic EC36/40 240V magnetic ballasts.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3392 Lumen, Power = 86.6W, Efficacy = 39 Lumen/W.

Test Distance: 8.0 metres

Test Temperature: 25.5 degrees Celsius

Significance: This laboratory has no control over the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

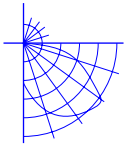
Special Notes: The Intensity values contained in this report are based on the lamp(s) delivering 1000.0 lumens. When using these values in calculations the appropriate Ballast Factor and Manufacturer's rated lumens MUST be taken into account.
It should also be noted that prorating the lumen output for the use of other lamp/ballast combinations, or for use in different environmental conditions, than that tested may produce erroneous results.
The generic term "LOR" is used in this report, it denotes the "Light Output Ratio Luminaire" as defined in Australian Standard AS1680, Part 3, 1991, Section 1.3.9.
This report is free of erasures and corrections.
Photometric intensity values are reported using the CIE Cgamma coordinate system as described in CIE Publication number 121.

Uncertainties: At the 95% confidence interval with a factor $k = 2$, the uncertainties for this report are :-

Temperature	+/- 1 degree Celsius
Light Output Ratio	+/- 4%
Luminous Intensity	+/- 4%
Angular displacement	+/- 0.25 degrees.

Testing Procedure: Tested in accordance with the applicable sections of CIE Publication Number 24 and Australian Standard AS1680, Part 3, 1991.





Report of Test LL10505

Sample 1200x300mm (nom), 2x28W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two Philips TL5 HE 28W/830 T5 fluorescent lamps at 121mm centres.
Integral Philips EB-Standard Electronic Ballast, Cat No. EB-S 228 TL5 220-240.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3101 Lumen, Power = 60.4 W, Efficacy = 51 Lumen/W.

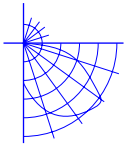


Performance Summary

Light Output Ratio	60.8 %
Luminaire Power	60.4 W
SHR Nominal	1.25
SHR Maximum	1.34

PREPARED FOR : Ilum-a-Lite, 9/123 Epping Road, North Ryde, NSW

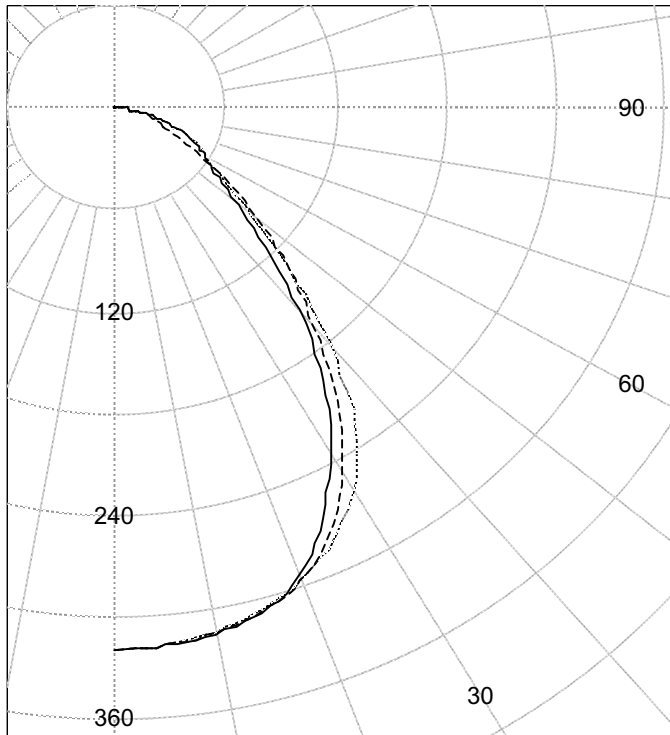




Certified Test Report No. LL10505

Sample 1200x300mm (nom), 2x28W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two Philips TL5 HE 28W/830 T5 fluorescent lamps at 121mm centres.
Integral Philips EB-Standard Electronic Ballast, Cat No. EB-S 228 TL5 220-240.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3101 Lumen, Power = 60.4 W, Efficacy = 51 Lumen/W.

LEGEND : C0-Solid, C45-Dashed, C90-Grey (cd / klm)



INTENSITY SUMMARY (cd / klm)

Gamma	C-Plane					Output Lumens
	C0	C22.5	C45	C67.5	C90	
0.0	319	319	319	319	319	
5.0	318	318	318	318	318	30
10.0	315	314	314	314	313	
15.0	308	308	307	306	306	87
20.0	293	295	296	296	295	
25.0	266	269	276	280	281	126
30.0	234	238	248	257	259	
35.0	197	201	210	221	226	131
40.0	156	161	169	176	180	
45.0	117	123	133	134	135	100
50.0	87	94	101	100	95	
55.0	66	72	72	74	71	65
60.0	55	52	47	53	57	
65.0	47	38	32	37	48	39
70.0	36	28	26	28	37	
75.0	25	21	20	21	25	23
80.0	15	15	13	15	15	
85.0	7	7	8	7	8	8
90.0	0	0	0	0	0	

AVERAGE LUMINANCE (cd / sq.m / klm)

Gamma	C0	C45	C90
45.0	511	583	589
55.0	356	387	382
65.0	345	235	350
75.0	301	237	301
85.0	253	268	267

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	% Lamp	% Luminaire
0-30	243	24.3	39.9
0-40	374	37.4	61.5
0-60	538	53.8	88.5
0-90	608	60.8	100.0
40-90	234	23.4	38.5
60-90	70	7.0	11.5
90-180	0	0.0	0.0
0-180	608	60.8	100.0

Light Output Ratio = 60.8 %

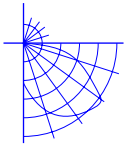
SHR-NOM = 1.25
SHR-MAX = 1.34

Calculated using the TM5
fine grid method.

CERTIFIED BY: *E Southgate*

Eric Southgate
Authorised Signatory

Date of test 27-Sep-2006
Date of report 28-Sep-2006



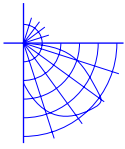
Certified Test Report No. LL10505

Sample 1200x300mm (nom), 2x28W recessed T-bar troffer. Cat No. Not specified.
 Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
 Two Philips TL5 HE 28W/830 T5 fluorescent lamps at 121mm centres.
 Integral Philips EB-Standard Electronic Ballast, Cat No. EB-S 228 TL5 220-240.
 Luminous opening 275 x 1175mm. K12 lens panel inlay.
 Total emitted flux from luminaire = 3101 Lumen, Power = 60.4 W, Efficacy = 51 Lumen/W.

INTENSITY DATA (cd / klm)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	319	319	319	319	319
2.5	319	319	319	319	319
5.0	318	318	318	318	318
7.5	317	316	316	316	316
10.0	315	314	314	314	313
12.5	312	312	311	310	310
15.0	308	308	307	306	306
17.5	302	302	302	302	301
20.0	293	295	296	296	295
22.5	281	283	288	289	289
25.0	266	269	276	280	281
27.5	251	254	263	271	271
30.0	234	238	248	257	259
32.5	216	220	230	242	246
35.0	197	201	210	221	226
37.5	176	181	190	200	206
40.0	156	161	169	176	180
42.5	136	141	150	154	155
45.0	117	123	133	134	135
47.5	100	107	117	115	113
50.0	87	94	101	100	95
52.5	75	82	86	86	82
55.0	66	72	72	74	71
57.5	59	61	58	64	63
60.0	55	52	47	53	57
62.5	51	44	38	44	53
65.0	47	38	32	37	48
67.5	42	33	29	32	42
70.0	36	28	26	28	37
72.5	31	24	23	24	31
75.0	25	21	20	21	25
77.5	20	18	16	18	20
80.0	15	15	13	15	15
82.5	11	11	11	11	11
85.0	7	7	8	7	8
87.5	3	3	4	3	3
90.0	0	0	0	0	0





Certified Test Report No. LL10505

Sample 1200x300mm (nom), 2x28W recessed T-bar troffer. Cat No. Not specified.

Mild steel body with control gear mounted under central spine. All surfaces powder coated white.

Two Philips TL5 HE 28W/830 T5 fluorescent lamps at 121mm centres.

Integral Philips EB-Standard Electronic Ballast, Cat No. EB-S 228 TL5 220-240.

Luminous opening 275 x 1175mm. K12 lens panel inlay.

Total emitted flux from luminaire = 3101 Lumen, Power = 60.4 W, Efficacy = 51 Lumen/W.

Utilization factors UF(F)

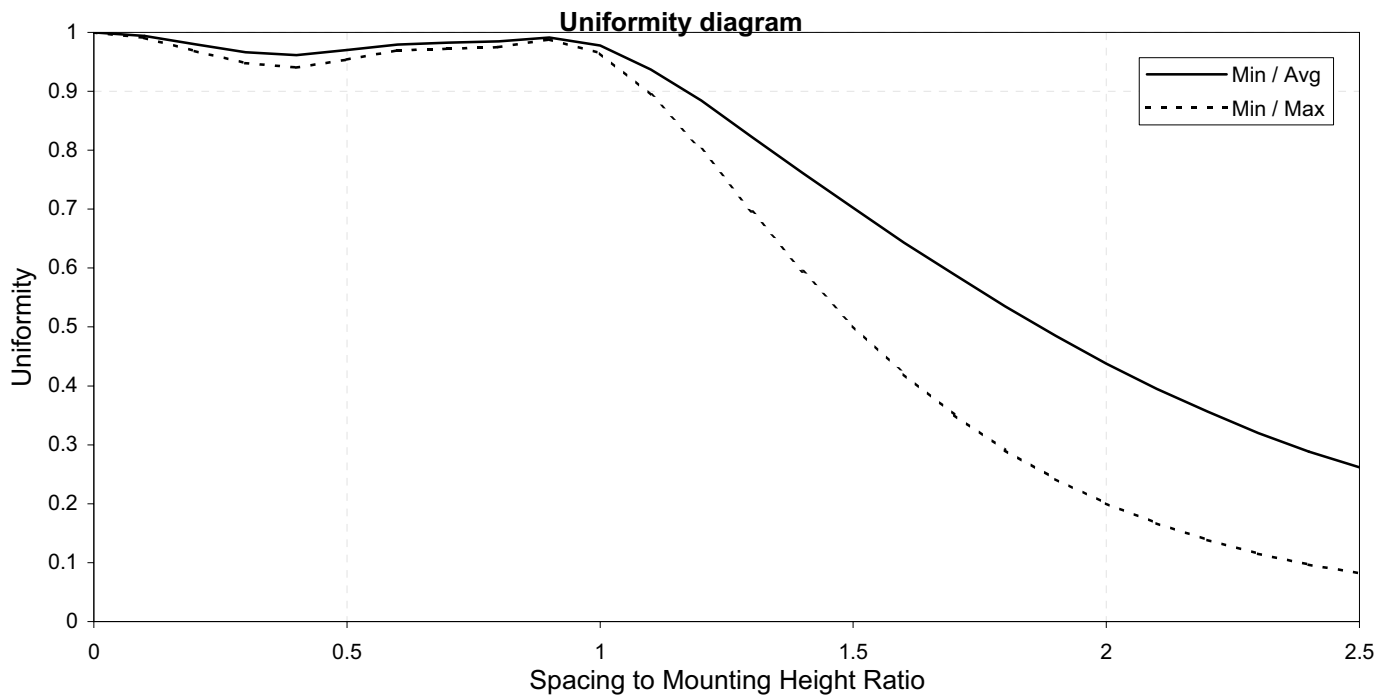
SHR NOM = 1.25											
Room Reflectance.			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.41	0.47	0.51	0.53	0.57	0.59	0.61	0.63	0.64
		0.30	0.38	0.43	0.47	0.50	0.54	0.57	0.58	0.61	0.63
		0.10	0.35	0.40	0.44	0.47	0.51	0.54	0.56	0.59	0.61
0.50	0.50	0.20	0.41	0.46	0.49	0.52	0.55	0.57	0.59	0.61	0.62
		0.30	0.37	0.42	0.46	0.49	0.53	0.55	0.57	0.59	0.61
		0.10	0.34	0.40	0.44	0.46	0.50	0.53	0.55	0.58	0.59
0.30	0.50	0.20	0.40	0.45	0.48	0.50	0.53	0.55	0.57	0.59	0.60
		0.30	0.37	0.42	0.45	0.48	0.51	0.54	0.55	0.57	0.59
		0.10	0.34	0.40	0.43	0.46	0.49	0.52	0.54	0.56	0.58
0.00	0.00	0.00	0.33	0.38	0.42	0.44	0.47	0.50	0.51	0.53	0.55

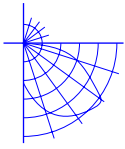
Rating : Photometrically tested without ceiling board.

Multiply values by service correction factors.

Calculated in accordance with CIBS Technical Memorandum No. 5 1980 using the fine grid method.

Luminaire discretisation employed. Ceiling/Wall/Floor reflectances not used in calculations.





Certified Test Report No. LL10505

Sample 1200x300mm (nom), 2x28W recessed T-bar troffer. Cat No. Not specified.
Mild steel body with control gear mounted under central spine. All surfaces powder coated white.
Two Philips TL5 HE 28W/830 T5 fluorescent lamps at 121mm centres.
Integral Philips EB-Standard Electronic Ballast, Cat No. EB-S 228 TL5 220-240.
Luminous opening 275 x 1175mm. K12 lens panel inlay.
Total emitted flux from luminaire = 3101 Lumen, Power = 60.4 W, Efficacy = 51 Lumen/W.

Test Distance:	8.0 metres								
Test Temperature:	25.2 degrees Celsius								
Significance:	This laboratory has no control over the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.								
Special Notes:	<p>The Intensity values contained in this report are based on the lamp(s) delivering 1000.0 lumens. When using these values in calculations the appropriate Ballast Factor and Manufacturer's rated lumens MUST be taken into account.</p> <p>It should also be noted that prorating the lumen output for the use of other lamp/ballast combinations, or for use in different environmental conditions, than that tested may produce erroneous results.</p> <p>The generic term "LOR" is used in this report, it denotes the "Light Output Ratio Luminaire" as defined in Australian Standard AS1680, Part 3, 1991, Section 1.3.9.</p> <p>This report is free of erasures and corrections.</p> <p>Photometric intensity values are reported using the CIE Cgamma coordinate system as described in CIE Publication number 121.</p>								
Uncertainties:	<p>At the 95% confidence interval with a factor k = 2, the uncertainties for this report are :-</p> <table><tr><td>Temperature</td><td>+/- 1 degree Celsius</td></tr><tr><td>Light Output Ratio</td><td>+/- 4%</td></tr><tr><td>Luminous Intensity</td><td>+/- 4%</td></tr><tr><td>Angular displacement</td><td>+/- 0.25 degrees.</td></tr></table>	Temperature	+/- 1 degree Celsius	Light Output Ratio	+/- 4%	Luminous Intensity	+/- 4%	Angular displacement	+/- 0.25 degrees.
Temperature	+/- 1 degree Celsius								
Light Output Ratio	+/- 4%								
Luminous Intensity	+/- 4%								
Angular displacement	+/- 0.25 degrees.								
Testing Procedure:	Tested in accordance with the applicable sections of CIE Publication Number 24 and Australian Standard AS1680, Part 3, 1991.								

