

Report of Test LL18434A

Famco Lighting Weatherproof LED Luminaire. Product ID: FL98016.

Plastic injection moulded body with grey finish, extent ~ 1275 x 160 x 50 mm deep. Clear prismatic lens forms luminous opening of 1270 x 160 x 50 mm deep. Folded white reflector about lamps. LED tubes comprised of extruded aluminium base and curved opal diffusers with two "ER20W1200DS-216SMD12X18PCB1"

LED PCBs centred 65 mm apart and ~ 15 mm below white reflector. One Tridonic LCI 65W 1400mA TEC Ip 220-240V 50/60Hz electronic driver. Tested at 240 V 50 Hz. Measured I = 240 mA.

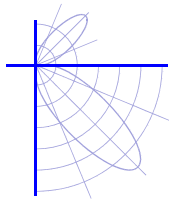


Performance Summary

Luminous flux	4116 lm
Luminaire Power	55.5 W
Luminous Efficacy	74.2 lm/W
SHR Nominal	1.75
SHR Maximum	1.75

PREPARED FOR : Famco Lighting Pty. Ltd., Collingwood, VIC 3066.



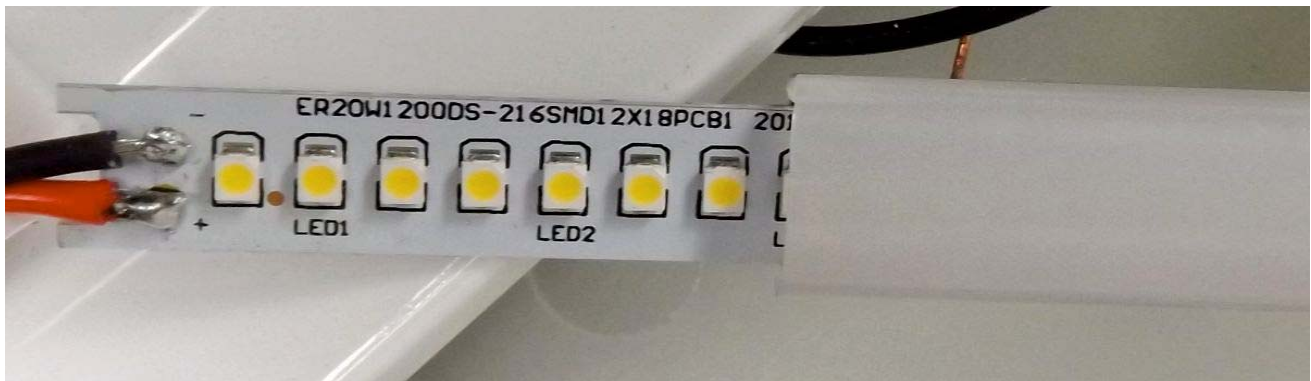


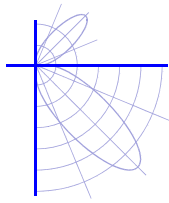
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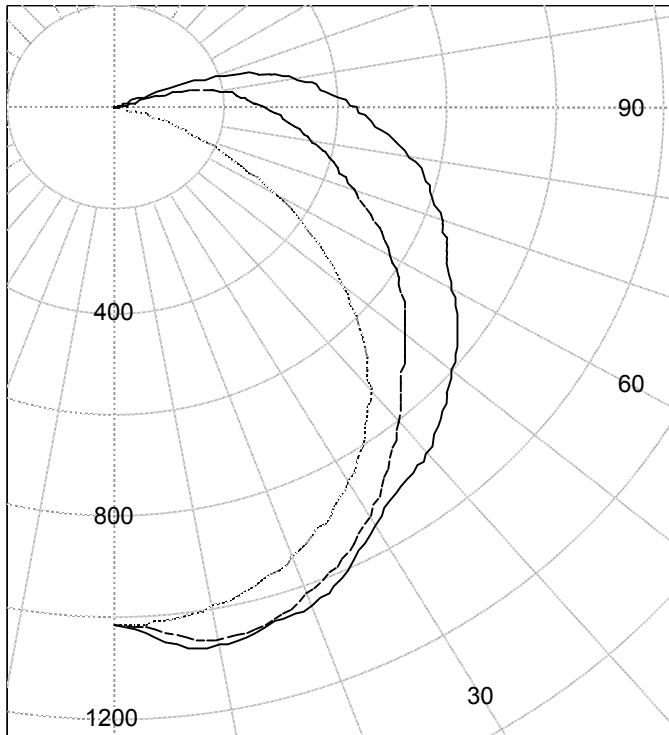
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

AVERAGE LUMINANCE (cd / sq.m)

Gamma	C0	C45	C90
45.0	4470	4110	4246
55.0	4490	4005	3553
65.0	4608	3930	2525
75.0	5186	4026	1362
85.0	6008	4663	768

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1015	1015	1015	1015	1015	
5.0	1053	1049	1034	1019	1011	99
10.0	1074	1071	1059	1024	996	
15.0	1055	1053	1052	1024	972	292
20.0	1041	1034	1016	1007	938	
25.0	1003	997	980	972	897	448
30.0	947	945	923	914	848	
35.0	905	890	862	842	788	539
40.0	882	856	802	759	718	
45.0	843	815	737	673	634	573
50.0	799	772	687	588	539	
55.0	757	725	633	501	437	550
60.0	708	673	576	423	336	
65.0	661	619	518	361	235	484
70.0	632	584	458	306	147	
75.0	591	542	408	244	82	405
80.0	545	500	363	179	42	
85.0	486	444	317	130	20	314
90.0	437	392	270	109	12	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	840	N / A	20.4
0-40	1379	N / A	33.5
0-60	2502	N / A	60.8
0-90	3705	N / A	90.0
40-90	2326	N / A	56.5
60-90	1203	N / A	29.2
90-180	411	N / A	10.0
0-180	4116	N / A	100.0

Total Light Output = 4116 lm

SHR-NOM = 1.75

Calculated using the TM5

SHR-MAX = 1.75

fine grid method.

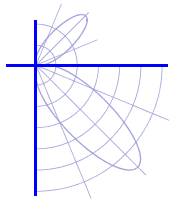
CERTIFIED BY:

Toby Southgate
Authorised Signatory

Date of test
Date of report

2-Apr-2015
9-Sep-2015





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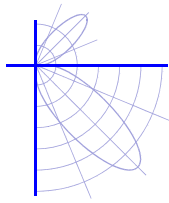
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LED PCBs centred 65 mm apart and ~ 15 mm below white reflector. One Tridonic LCI 65W 1400mA TEC Ip 220-240V 50/60Hz electronic driver. Tested at 240 V 50 Hz. Measured I = 240 mA.

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1015	1015	1015	1015	1015
2.5	1026	1025	1021	1017	1015
5.0	1053	1049	1034	1019	1011
7.5	1070	1066	1050	1021	1005
10.0	1074	1071	1059	1024	996
12.5	1067	1067	1059	1026	986
15.0	1055	1053	1052	1024	972
17.5	1049	1042	1037	1018	956
20.0	1041	1034	1016	1007	938
22.5	1024	1017	997	992	918
25.0	1003	997	980	972	897
27.5	975	971	953	945	873
30.0	947	945	923	914	848
32.5	922	913	892	878	819
35.0	905	890	862	842	788
37.5	896	868	830	802	755
40.0	882	856	802	759	718
42.5	862	838	768	715	677
45.0	843	815	737	673	634
47.5	820	795	711	630	589
50.0	799	772	687	588	539
52.5	780	748	661	547	490
55.0	757	725	633	501	437
57.5	733	701	606	461	385
60.0	708	673	576	423	336
62.5	682	648	549	391	286
65.0	661	619	518	361	235
67.5	647	598	486	334	188
70.0	632	584	458	306	147
72.5	608	564	431	275	111
75.0	591	542	408	244	82
77.5	570	523	387	210	59
80.0	545	500	363	179	42
82.5	514	471	341	152	28
85.0	486	444	317	130	20
87.5	457	414	294	118	14
90.0	437	392	270	109	12





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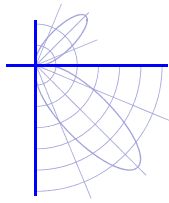
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	437	392	270	109	12
92.5	413	370	252	98	11
95.0	385	345	234	84	10
97.5	363	325	218	74	9
100.0	335	299	193	61	8
102.5	303	268	166	44	7
105.0	270	231	126	23	6
107.5	223	181	86	14	5
110.0	173	136	48	10	4
112.5	117	83	24	8	3
115.0	66	47	15	6	2
117.5	39	23	12	4	1
120.0	19	16	10	3	1
122.5	15	13	8	1	1
125.0	12	11	6	1	1
127.5	11	9	4	0	0
130.0	8	7	4	0	0
132.5	7	6	3	0	0
135.0	6	5	2	0	0
137.5	5	4	1	0	0
140.0	4	3	1	0	0
142.5	3	2	1	0	0
145.0	2	2	0	0	0
147.5	2	1	0	0	0
150.0	1	1	0	0	0
152.5	1	1	1	0	0
155.0	1	1	1	0	0
157.5	1	1	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0



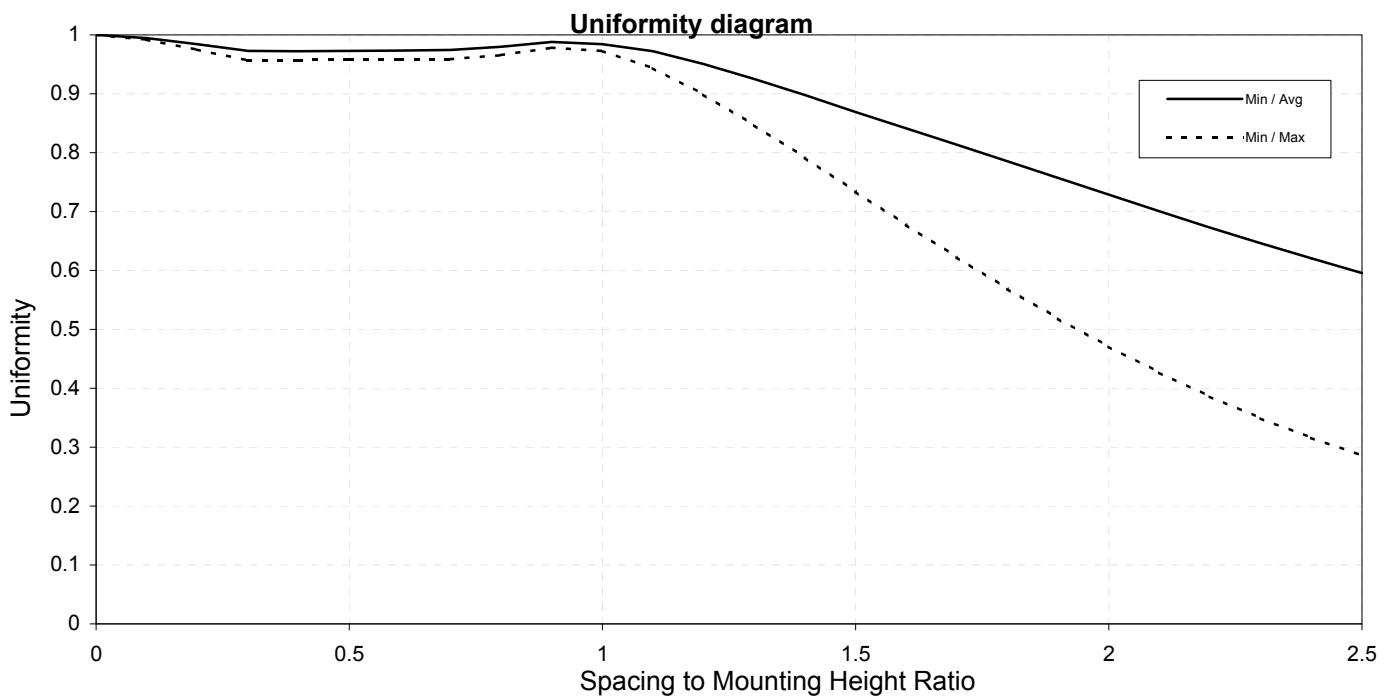


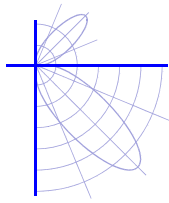
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Test Distance: 8.0 metres
Test Temperature: 24.9 degrees Celsius

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 shown as tested. 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.

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	+/- 0.5 degrees.

Testing Procedure: Tested in accordance with the applicable sections of CIE Publication Number 121; and with reference to Australian Standard AS1680, Part 3, 1991.

