

T e s t R e p o r t

Report No : **LS1421I**

Client: : TLC Southern Ltd
The TLC Building,
5 Newton Road,
Crawley,
West Sussex,
RH10 9TS

Description : 70W LED Slimlight Panel

Manufacturer : LEDLITE

Type/Model : LTSP70DL

Test Specification : Determination of Light Output Distribution Light Distribution measurements were made with reference to CIE 127 – 2007, clause 6.2.1; Goniophotometry Method

Date Testing Started : 23/08/2016

Conclusion : Refer to body of report

Date of Issue : 14/09/2016

Date of Expiry : 13/09/2021

Tested by: **M. ALI**
Position: Photometry Engineer



Approved by: **T. MALIK**
Position: Operations & Quality
Manager



INTRODUCTION

Far Eastern Manufacturing Ltd have supplied the product identified in page one for determination of light output distribution.

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	70W LED Slimlight Panel
Model No.	LTSP70DL
Number of Samples	One
Condition on Receipt	Good
Nominal Dimensions	1200mm x 550mm x 10mm
Product Supply Requirement	240V AC, 50Hz
Lamp Type and Power	LED 70W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

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PROCEDURE

Table 2. Test Procedure and Equipment Used for Photometric Measurements

Test Standard	<i>CIE 127 – 2007, clause 6.2.1; Goniophotometry Method</i>
Equipment Used	LMT GO-DS 2000 goniophotometer
Standard Lamp Used	LMT Photometer Unit 01B6081
Standard Lamp Traceability	Traceable to luminous intensity standard lamp type OSRAM Wi41/G lamp No. 934
Scan Setup	Elevation: 0°-180°, step size: 5° Azimuth: 0°-360°, step size: 5°
Power Supply	LMT GO-DS 2000 goniophotometer
Power Measurement	LMT GO-DS 2000 goniophotometer
Temperature Measurement	Testo 925 Thermocouple reader

Table 3. Lamp Conditioning and Setup

Lamp ageing Time (Hours)	0
Stabilisation Time (Hours)	60
Total Operating Time (Hours)	1.33
Support Structure	n/a

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TEST RESULTS

Table 4. Test Environmental and Operating Conditions

Ambient Temperature (°C)	25.0
Voltage (V)	240.2
Current (mA)	292.92
Power (W)	68.96
Power Factor	0.98

Table 5. Beam Angle Results

Luminous Flux (lm)	Centre Beam Intensity (cd)	Beam Angle (Lamp orientation)	Beam Angle Result (°)
6688.4	2389.5	Horizontal	111.4
		Vertical	108.1

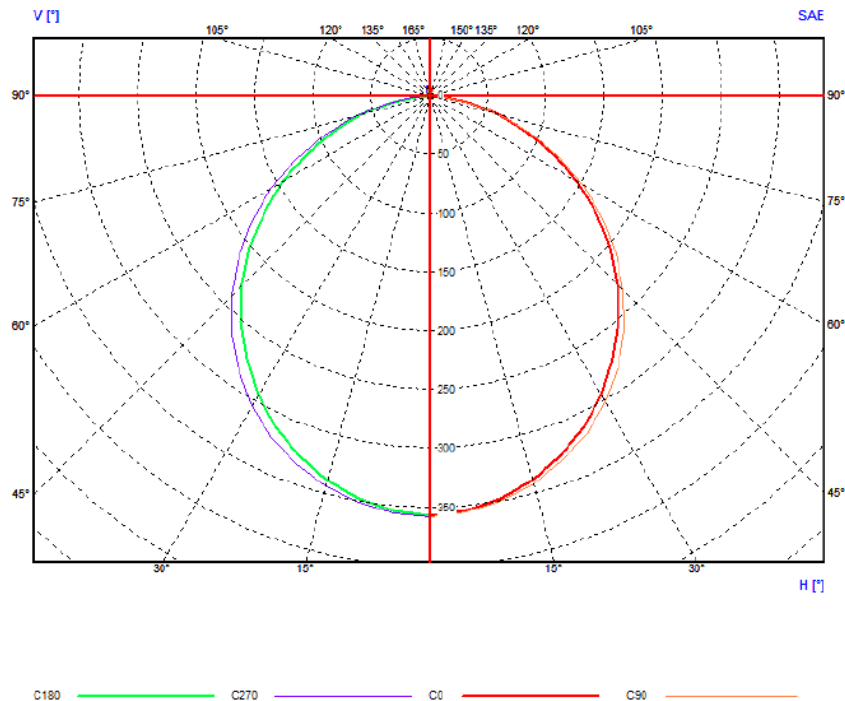


Figure 1. Polar Diagram

Continued on following page

This page is to be read in conjunction with the first page of this report

Table 6. Luminous Intensities (cd)

Gamma	0	5	10	15	20	25	30	35	40	45	50	55
0	2381.5	2381.5	2381.5	2381.5	2384.2	2384.2	2384.2	2384.2	2384.2	2386.8	2386.8	2386.8
5	2365.6	2365.6	2363	2363	2365.6	2365.6	2365.6	2365.6	2365.6	2368.3	2368.3	2368.3
10	2323.2	2323.2	2320.6	2320.6	2323.2	2323.2	2323.2	2323.2	2325.9	2325.9	2325.9	2331.2
15	2259.7	2259.7	2257	2257	2259.7	2259.7	2262.3	2262.3	2265	2267.6	2267.6	2270.3
20	2177.5	2174.9	2174.9	2174.9	2177.5	2177.5	2180.2	2180.2	2182.8	2188.1	2190.8	2193.4
25	2074.2	2074.2	2071.6	2074.2	2074.2	2076.9	2076.9	2079.5	2084.8	2087.5	2092.8	2095.4
30	1955.8	1953.2	1953.2	1954	1956.1	1957.7	1960.3	1963.8	1968.5	1973	1978.1	1982
35	1819.7	1817.8	1817	1818.3	1820.2	1822.3	1825.7	1829.2	1834	1839.3	1844.3	1849.9
40	1670.2	1667.6	1667.6	1668.1	1671	1672.6	1675.8	1679.8	1684.6	1690.6	1695.1	1700.7
45	1508.9	1506.3	1506.3	1507.1	1508.9	1511.3	1514.2	1518.2	1523.2	1528.3	1533.6	1538.9
50	1337.8	1335.7	1335.1	1335.7	1337.5	1339.1	1342	1345.7	1350.5	1355.3	1360.3	1365.1
55	1156.3	1154.7	1154.2	1153.9	1155.5	1156.6	1159.2	1162.7	1166.7	1171.2	1175.1	1179.1
60	969	967.2	966.6	966.4	967.2	968.2	970.4	973.3	976.2	979.6	983.3	986.5
65	777	775.4	774.1	773.8	774.1	774.9	776.2	778	780.4	782.8	785.5	788.1
70	587	585.4	584.4	583.9	583.9	584.1	584.7	586	587.6	589.2	591	592.6
75	405.8	404.2	403.2	402.7	402.1	402.1	402.1	402.7	403.5	404.2	405	406.1
80	237.1	235.8	234.7	233.9	233.4	232.6	232.3	232.1	232.1	232.1	232.3	232.3
85	91	90	88.9	87.9	87.1	86.2	85.4	84.6	83.9	83.3	82.6	82.1
90	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.4
95	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
100	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
105	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7
110	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4
115	12.1	12.1	12.1	12.1	12.2	12.2	12.2	12.2	12.3	12.3	12.3	12.3
120	12.6	12.8	13	13.3	13.5	13.7	13.7	13.8	13.8	13.7	13.7	13.6
125	8.4	8.6	8.8	8.9	9	9.1	9	8.8	8.6	8.4	8.2	8
130	10.8	10.9	10.9	10.8	10.5	10.4	10.2	10	9.9	9.7	9.7	9.9
135	13.9	13.9	14	14	14.1	14.2	14.3	14.4	14.4	14.5	14.6	14.6
140	11.9	11.9	11.9	11.9	12	12.1	12.2	12.2	12.3	12.3	12.4	12.5
145	13.7	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
150	20.6	20.6	20.6	20.7	20.7	20.8	20.8	20.7	20.7	20.7	20.7	20.7
155	30.3	30.4	30.5	30.9	31.3	31.7	32.2	32.6	33	33.3	33.7	34
160	38.6	38.6	38.9	39.7	40.6	41.6	42.6	43.6	44.7	45.7	46.7	47.7
165	40.8	40.8	41.2	42.1	43.3	44.4	45.7	47.2	48.5	49.8	51	52.1
170	38.1	38.2	38.6	39.1	39.9	40.8	41.7	42.8	43.9	45	46.1	47.1
175	33.8	33.7	33.8	34.4	35.1	35.8	36.5	37.1	37.5	38.1	38.8	39.4
180	33.9	34	34	34.2	34.3	34.5	34.8	35.2	35.6	36.2	36.8	37.4

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Table 6 Continued...

Gamma	60	65	70	75	80	85	90	95	100	105	110	115
0	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2384.2
5	2368.3	2368.3	2368.3	2368.3	2368.3	2368.3	2368.3	2370.9	2370.9	2368.3	2368.3	2368.3
10	2331.2	2331.2	2331.2	2331.2	2333.8	2331.2	2333.8	2333.8	2333.8	2333.8	2331.2	2331.2
15	2272.9	2272.9	2275.6	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2275.6	2275.6
20	2196.1	2198.7	2201.4	2201.4	2204	2204	2206.7	2204	2204	2204	2201.4	2198.7
25	2100.7	2103.4	2106	2108.7	2111.3	2111.3	2111.3	2114	2111.3	2111.3	2108.7	2106
30	1986.3	1991.1	1994.2	1996.9	1999.3	2000.3	2001.9	2001.6	2000.6	1999.3	1996.3	1992.9
35	1854.6	1859.1	1863.4	1866	1868.7	1870.3	1870.8	1871.3	1870.3	1868.4	1865.2	1861.8
40	1706.3	1710.8	1715	1718.2	1720.6	1722.7	1723.2	1723.2	1722.4	1719.8	1717.1	1713.2
45	1543.9	1548.9	1552.6	1555.8	1558.5	1560.3	1561.4	1560.6	1560	1557.7	1554.2	1551
50	1369.8	1374.3	1377.5	1380.7	1383.4	1385.2	1386	1385.5	1384.1	1382.6	1379.6	1375.9
55	1183.6	1187.1	1190.2	1192.9	1195.3	1196.9	1197.4	1197.4	1195.8	1193.9	1191.6	1188.6
60	990	992.9	995.3	997.9	999.8	1001.4	1001.9	1001.4	1000.8	999.2	996.6	994.5
65	790.5	792.6	794.5	796.3	798.2	799.2	799.8	799.5	798.7	797.6	795.5	793.7
70	594.5	595.8	597.4	598.7	599.5	600.3	600.5	600	599.8	598.7	597.6	596
75	406.9	408	408.5	409.3	409.8	410.1	410.1	409.8	409.5	409	408.2	407.2
80	232.6	232.9	232.9	232.9	233.1	233.1	232.9	232.9	232.6	232.3	231.8	231.5
85	81.5	81	80.6	80.2	79.8	79.6	79.4	79.3	79.2	79.2	79.2	79.4
90	2.3	2.2	2.1	2	2	1.9	1.9	1.9	1.9	2.1	2	1.9
95	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
100	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
105	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
110	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3
115	12.3	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.3
120	13.6	13.6	13.6	13.7	13.7	13.8	13.9	13.9	13.7	13.4	13.2	12.9
125	7.9	7.8	7.8	7.6	7.4	7.2	7	6.7	6.6	6.5	6.5	6.5
130	10	10.2	10.4	10.6	10.8	11	11.3	11.5	11.6	11.7	11.9	12.1
135	14.7	14.7	14.8	14.8	14.9	14.9	14.9	14.9	14.8	14.8	14.7	14.6
140	12.5	12.6	12.7	12.8	12.8	12.9	12.8	12.8	12.9	12.8	12.7	12.6
145	13.6	13.6	13.5	13.4	13.3	13.3	13.3	13.2	13.3	13.4	13.4	13.4
150	20.7	20.6	20.6	20.5	20.3	20.2	20.2	20.2	20.2	20.3	20.4	20.5
155	34.1	34.3	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.4	34.3	34.3
160	48.5	49.2	49.6	49.8	49.8	49.8	49.9	49.7	49.5	49.4	49.1	48.7
165	53.1	54	54.8	55.3	55.9	56.6	57	57	56.7	56.1	55.5	54.9
170	48.1	48.9	49.7	50.5	51.2	51.8	52.2	52.3	52	51.7	51.2	50.6
175	40	40.9	41.8	42.4	43.1	43.6	43.7	43.5	43.2	42.5	41.9	41.4
180	37.7	37.9	38.1	38.1	38.1	38.2	38.1	37.9	37.7	37.5	37.4	37.1

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This page is to be read in conjunction with the first page of this report

Table 7. Luminous Intensities (cd)

Gamma	120	125	130	135	140	145	150	155	160	165	170	175
0	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2381.5	2384.2	2381.5	2381.5	2381.5
5	2368.3	2365.6	2365.6	2368.3	2365.6	2365.6	2365.6	2365.6	2365.6	2363	2363	2363
10	2331.2	2328.5	2328.5	2328.5	2328.5	2328.5	2325.9	2325.9	2323.2	2323.2	2323.2	2323.2
15	2272.9	2270.3	2270.3	2267.6	2267.6	2267.6	2265	2262.3	2262.3	2259.7	2259.7	2259.7
20	2198.7	2196.1	2193.4	2190.8	2188.1	2188.1	2182.8	2180.2	2180.2	2177.5	2177.5	2177.5
25	2103.4	2100.7	2095.4	2092.8	2090.1	2087.5	2084.8	2079.5	2076.9	2076.9	2074.2	2074.2
30	1989.7	1985.8	1981.5	1977.3	1973.8	1969.9	1966.1	1962.2	1959.3	1957.1	1955	1955.3
35	1858.3	1853.3	1848.8	1844	1839.5	1835.5	1831	1826.8	1823.6	1821	1819.4	1819.4
40	1709.2	1704.7	1699.1	1694.6	1689.3	1685.1	1681.1	1676.3	1673.4	1670.5	1669.5	1669.7
45	1546.8	1542.6	1537.5	1532	1527.7	1522.7	1518.5	1514.2	1511.3	1509.2	1507.6	1507.6
50	1372.2	1367.5	1363.2	1358.4	1353.9	1349.7	1345.7	1342	1339.1	1337	1336.2	1335.9
55	1185.2	1181	1177	1172.7	1168.8	1165.3	1161.6	1158.2	1156.6	1154.7	1154.2	1154.5
60	991	988.1	984.7	981.2	978	974.6	972.2	969.6	967.7	966.9	966.4	966.9
65	791.3	788.4	786	783.3	781.2	778.8	776.7	775.1	774.1	773.3	773.5	774.3
70	594.5	592.6	590.5	589.2	587.6	586.2	584.9	583.9	583.6	583.3	583.9	584.9
75	406.4	405.3	404.2	403.2	402.7	402.1	401.6	401.3	401.3	401.9	402.4	403.5
80	231.3	231	230.7	230.5	230.2	230.5	230.7	231	231.5	232.3	233.4	234.4
85	79.6	79.9	80.3	80.8	81.4	82	82.8	83.6	84.5	85.6	86.7	87.9
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2	2
95	2.3	2.4	2.4	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1
100	2.4	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.6
105	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.8
110	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
115	12.3	12.3	12.2	12.2	12.2	12.2	12.2	12.2	12.1	12.1	12.1	12.1
120	12.7	12.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5
125	6.6	6.7	6.9	7	7.2	7.3	7.4	7.5	7.7	7.8	8	8.2
130	12.1	12	11.9	11.8	11.8	11.7	11.6	11.6	11.6	11.5	11.4	11.2
135	14.6	14.6	14.5	14.4	14.3	14.3	14.2	14.1	14.1	14	14	14
140	12.5	12.4	12.4	12.3	12.2	12.2	12.1	12	11.9	11.9	11.9	11.9
145	13.5	13.5	13.4	13.4	13.4	13.4	13.5	13.5	13.5	13.6	13.6	13.6
150	20.6	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.6	20.6	20.5	20.5
155	34.1	33.9	33.8	33.5	33.2	32.8	32.3	31.9	31.4	31	30.6	30.4
160	48.4	47.8	46.9	46	45.2	44.2	43.2	42.2	41.2	40.3	39.5	38.9
165	54	53.1	52	50.9	49.7	48.4	47	45.6	44.4	43.3	42.3	41.3
170	49.9	49	48.1	46.9	45.6	44.4	43.1	42	40.9	40	39.2	38.6
175	40.7	40	39.4	38.8	38.1	37.4	36.8	36.1	35.3	34.6	34.2	34
180	36.9	36.6	36.2	35.7	35.2	34.8	34.5	34.3	34.1	34	34.1	34

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This page is to be read in conjunction with the first page of this report

Table 6 Continued...

Gamma	180	185	190	195	200	205	210	215	220	225	230	235
0	2384.2	2381.5	2381.5	2381.5	2384.2	2384.2	2384.2	2384.2	2384.2	2386.8	2386.8	2386.8
5	2365.6	2365.6	2363	2365.6	2365.6	2365.6	2368.3	2368.3	2370.9	2370.9	2370.9	2373.6
10	2323.2	2323.2	2323.2	2325.9	2325.9	2328.5	2331.2	2328.5	2333.8	2336.5	2336.5	2339.1
15	2259.7	2259.7	2262.3	2262.3	2265	2267.6	2270.3	2272.9	2275.6	2278.2	2280.9	2286.2
20	2177.5	2177.5	2180.2	2180.2	2185.5	2188.1	2190.8	2193.4	2198.7	2204	2206.7	2212
25	2076.9	2076.9	2076.9	2079.5	2084.8	2087.5	2092.8	2095.4	2103.4	2108.7	2114	2119.3
30	1956.6	1956.3	1959	1962.2	1966.4	1971.2	1975.7	1981.5	1987.9	1994.5	2001.1	2007.2
35	1820.7	1821	1823.6	1827.6	1832.4	1836.6	1842.7	1848.5	1855.9	1863.4	1870.3	1877.7
40	1670.5	1671.3	1674	1677.9	1683.5	1688.3	1694.4	1701.2	1708.4	1716.6	1723.8	1731.2
45	1509.2	1510	1513.2	1516.9	1522.2	1527.5	1533.6	1541	1548.1	1556.1	1563.8	1570.9
50	1338.1	1339.1	1342	1346.3	1351	1356.6	1362.4	1369.3	1376.7	1384.1	1391.6	1398.7
55	1156.6	1157.9	1161.1	1164.5	1169.6	1174.1	1180.2	1186.8	1193.4	1200.6	1207.2	1214.1
60	969	970.6	973.8	977	981.2	986	991	997.1	1003.2	1009.3	1015.7	1021.5
65	776.2	778.3	780.7	784.1	787.8	791.8	796.6	801.6	807.2	812.5	817.8	822.8
70	586.5	588.4	590.7	593.7	597.1	600.3	604.5	608.8	613	617.5	621.7	625.7
75	405.3	406.9	409	411.7	414.3	417.2	420.1	423.6	426.8	430.2	433.7	436.6
80	235.8	237.4	238.9	241.1	243.2	245.3	247.4	249.8	252.2	254.6	257	259.1
85	89.2	90.4	91.6	92.9	94.3	95.7	97.1	98.5	99.8	101.1	102.4	103.5
90	2	2	2	2	2	2.1	2.3	2.4	2.6	2.7	2.8	2.8
95	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2
100	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.6	2.6	2.5
105	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.6	2.6
110	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2
115	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
120	12.7	12.8	13	13.2	13.5	13.6	13.6	13.6	13.5	13.5	13.4	13.3
125	8.5	8.7	8.8	9	9.1	9.1	9	8.9	8.6	8.4	8.2	8
130	10.9	10.9	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.6	9.6	9.7
135	13.9	14	14	14	14	14.1	14.1	14.2	14.2	14.3	14.3	14.4
140	11.9	11.9	11.9	11.9	11.9	12	12.1	12.1	12.2	12.2	12.3	12.3
145	13.6	13.6	13.6	13.6	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5
150	20.5	20.5	20.5	20.6	20.7	20.7	20.7	20.7	20.6	20.6	20.6	20.7
155	30.3	30.3	30.5	30.8	31.3	31.7	32.1	32.6	33	33.3	33.7	34
160	38.7	38.7	39	39.8	40.6	41.6	42.7	43.7	44.8	45.8	46.8	47.8
165	40.9	40.9	41.3	42.3	43.4	44.6	45.9	47.4	48.7	50.1	51.2	52.3
170	38.3	38.4	38.8	39.3	40.1	41	42	43	44.1	45.2	46.3	47.4
175	33.9	33.9	34	34.6	35.3	36	36.6	37.2	37.6	38.3	39	39.5
180	34	34	34	34.3	34.4	34.5	34.9	35.2	35.7	36.3	36.8	37.5

Continued on following page

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Table 8. Luminous Intensities (cd)

Gamma	240	245	250	255	260	265	270	275	280	285	290	295
0	2386.8	2386.8	2389.5	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8
5	2373.6	2373.6	2376.2	2373.6	2376.2	2373.6	2376.2	2376.2	2376.2	2376.2	2373.6	2373.6
10	2339.1	2341.8	2341.8	2341.8	2344.4	2344.4	2344.4	2344.4	2344.4	2344.4	2341.8	2341.8
15	2286.2	2288.8	2291.5	2291.5	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2291.5	2288.8
20	2214.6	2217.3	2219.9	2222.6	2225.2	2225.2	2225.2	2225.2	2225.2	2222.6	2219.9	2217.3
25	2124.6	2127.2	2129.9	2132.5	2135.2	2137.8	2137.8	2137.8	2137.8	2135.2	2132.5	2127.2
30	2013.3	2018.3	2022.3	2026.8	2028.4	2030.3	2031.6	2030.5	2029.5	2026.8	2023.1	2019.1
35	1884	1889.6	1894.4	1898.9	1901.8	1903.4	1905	1903.9	1902.6	1899.7	1895.4	1890.4
40	1738.6	1744.4	1750	1754	1757.4	1759.8	1760.1	1759.3	1757.9	1754.5	1750.8	1745.5
45	1578.1	1584.4	1589.7	1594.2	1597.4	1599.3	1600.3	1599.5	1597.9	1594.5	1590.2	1584.9
50	1405.3	1411.4	1416.5	1420.4	1424.1	1426	1426.8	1425.7	1424.4	1421.5	1416.7	1412
55	1220.2	1225.5	1230.2	1234.2	1237.7	1239.8	1240	1239.5	1237.7	1234.5	1230.8	1226
60	1027	1031.6	1035.8	1039.5	1042.1	1044	1044.5	1043.7	1042.4	1039.5	1036.1	1031.8
65	827.6	831.5	835	837.9	840.6	841.9	842.4	842.1	840.6	838.7	835.3	831.5
70	629.7	633.1	636	638.4	640.5	641.6	641.9	641.3	640.3	638.4	636	632.9
75	439.7	442.1	444.3	446.1	447.4	448.2	448.5	448	447.2	445.6	443.7	441.6
80	260.9	262.8	264.4	265.4	266.5	266.8	267	266.8	266	265.2	263.8	262.3
85	104.6	105.5	106.2	106.8	107.2	107.4	107.5	107.4	107	106.5	105.9	105.2
90	2.8	2.8	2.7	2.6	2.4	2.2	2	1.9	1.8	1.7	1.7	1.7
95	2.3	2.4	2.2	2	2	2	2	2	2	2	2	2
100	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
105	2.6	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
110	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
115	12.1	12.1	12.1	12	12	12	12	12	12	12	11.9	11.9
120	13.2	13.2	13.4	13.4	13.3	13.4	13.5	13.5	13.3	13	12.8	12.6
125	7.9	7.8	7.7	7.5	7.2	7.1	6.8	6.6	6.5	6.4	6.4	6.4
130	9.9	10	10.2	10.4	10.6	10.8	11.1	11.3	11.3	11.4	11.6	11.7
135	14.4	14.4	14.4	14.5	14.5	14.5	14.5	14.5	14.4	14.4	14.3	14.3
140	12.4	12.5	12.5	12.6	12.7	12.7	12.7	12.7	12.7	12.6	12.5	12.4
145	13.5	13.5	13.5	13.4	13.2	13.2	13.3	13.2	13.2	13.3	13.4	13.4
150	20.6	20.6	20.5	20.4	20.3	20.2	20.1	20.2	20.2	20.3	20.4	20.5
155	34.2	34.4	34.5	34.6	34.6	34.6	34.6	34.6	34.5	34.5	34.4	34.4
160	48.7	49.4	49.8	50	50	50	50.1	49.9	49.7	49.7	49.4	48.9
165	53.4	54.3	55.1	55.7	56.3	57	57.3	57.4	57	56.5	55.8	55.2
170	48.3	49.2	50	50.8	51.5	52.1	52.5	52.5	52.2	51.8	51.3	50.7
175	40.1	41	41.9	42.5	43.2	43.7	43.7	43.6	43.3	42.6	41.9	41.5
180	37.8	38	38.1	38.1	38.1	38.1	38.1	37.9	37.7	37.5	37.4	37.2

Continued on following page

This page is to be read in conjunction with the first page of this report

Table 6 Continued...

Gamma	300	305	310	315	320	325	330	335	340	345	350	355
0	2386.8	2384.2	2384.2	2386.8	2386.8	2386.8	2384.2	2381.5	2384.2	2381.5	2381.5	2381.5
5	2373.6	2370.9	2370.9	2370.9	2370.9	2370.9	2368.3	2368.3	2365.6	2365.6	2363	2365.6
10	2339.1	2339.1	2336.5	2336.5	2333.8	2333.8	2331.2	2328.5	2325.9	2325.9	2323.2	2323.2
15	2286.2	2283.5	2283.5	2280.9	2278.2	2275.6	2272.9	2270.3	2267.6	2265	2262.3	2259.7
20	2214.6	2212	2206.7	2204	2201.4	2198.7	2193.4	2188.1	2185.5	2182.8	2177.5	2177.5
25	2124.6	2119.3	2114	2111.3	2106	2100.7	2095.4	2090.1	2084.8	2082.2	2076.9	2076.9
30	2014.1	2008.8	2002.4	1996.9	1991.6	1985.5	1979.4	1973.3	1967.7	1963.5	1958.7	1956.6
35	1885.4	1879.3	1872.4	1865.7	1859.7	1852.8	1845.6	1839	1833.4	1827.9	1823.6	1821.2
40	1739.7	1733.6	1725.6	1719	1711.8	1704.2	1697.5	1689.8	1684.3	1679	1674.2	1672.1
45	1579.1	1573	1565.1	1557.9	1550.8	1543.4	1536.5	1529.3	1523	1518.2	1513.2	1510.2
50	1405.9	1399.5	1392.9	1385.5	1378.3	1371.2	1364.3	1357.9	1351.6	1346.5	1342.3	1339.1
55	1220.7	1214.3	1207.7	1201.9	1194.7	1188.1	1181.8	1174.9	1169.8	1164.8	1160.6	1157.9
60	1027	1021.5	1015.4	1009.8	1004	997.6	992.1	986.3	981.2	977.2	973	970.1
65	827.6	822.5	817.5	812.7	807.4	802.4	797.1	792.6	788.1	784.1	780.9	778.3
70	629.4	625.7	621.5	617.5	613.3	609	605.1	600.5	597.4	593.9	590.7	588.9
75	438.7	436	432.9	429.7	426.5	423.3	420.1	417	414.1	411.7	409	407.2
80	260.7	258.6	256.4	254.3	251.9	249.8	247.7	245.3	243.5	241.6	239.7	238.4
85	104.3	103.3	102.2	101.1	99.9	98.8	97.6	96.3	95.2	94	92.9	91.9
90	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2
95	2	2	2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
100	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.4
105	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6
110	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
115	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12	12	12	12	12
120	12.4	12.2	12.1	12.1	12.1	12.2	12.2	12.2	12.2	12.3	12.3	12.5
125	6.5	6.6	6.8	6.9	7.1	7.2	7.3	7.5	7.6	7.7	7.9	8.1
130	11.7	11.6	11.6	11.5	11.4	11.4	11.4	11.3	11.3	11.3	11.3	11
135	14.3	14.2	14.2	14.1	14.1	14	14	14	13.9	13.9	13.9	13.9
140	12.3	12.3	12.2	12.2	12.1	12.1	12	11.9	11.9	11.8	11.8	11.8
145	13.5	13.4	13.4	13.4	13.5	13.4	13.5	13.5	13.5	13.6	13.6	13.7
150	20.6	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.6	20.6	20.6
155	34.2	34	33.8	33.6	33.2	32.8	32.4	31.9	31.5	31.1	30.7	30.4
160	48.6	47.9	47	46.1	45.2	44.3	43.2	42.2	41.2	40.3	39.5	38.9
165	54.3	53.3	52.2	51	49.8	48.5	47	45.6	44.3	43.2	42.1	41.2
170	50	49.1	48.2	47	45.7	44.5	43.1	42	40.9	39.9	39.1	38.4
175	40.8	40.1	39.4	38.8	38	37.3	36.7	36	35.3	34.6	34.1	33.9
180	36.9	36.6	36.1	35.6	35.1	34.7	34.4	34.2	34	34	34	33.9

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This page is to be read in conjunction with the first page of this report

PRODUCT DIAGRAM & IDENTIFICATION OF PHOTOMETRIC CENTRE

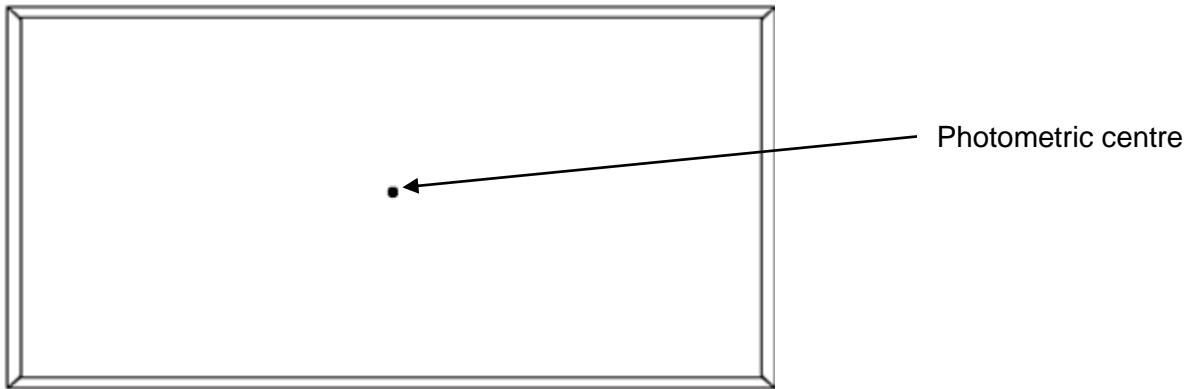


Figure 2. *Product photometric centre*

ILLUSTRATION



Figure 3. *Product image*

End