

T e s t R e p o r t

Report No : **LS1421H**

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

Description : 70W LED Slim Panel Light

Manufacturer : LEDLITE

Type/Model : LTSP70W

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 : 22/06/2016

Conclusion : Refer to body of report

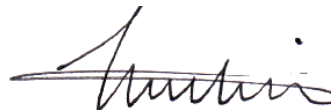
Date of Issue : 01/07/2016

Date of Expiry : 30/06/2021

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



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



INTRODUCTION

TLC Southern Ltd have supplied the product identified in page one for determination of light output distribution.

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	LED Panel Light
Model No.	LTSP70W
Number of Samples	One
Condition on Receipt	Good
Nominal Dimensions	1200mm x 590mm 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)	292.85
Power (W)	68.98
Power Factor	0.98

Table 5. Beam Angle Results

Luminous Flux (lm)	Centre Beam Intensity (cd)	Beam Angle (Lamp orientation)	Beam Angle Result (°)
6701.9	2304.7	Horizontal	113.9
		Vertical	110.8

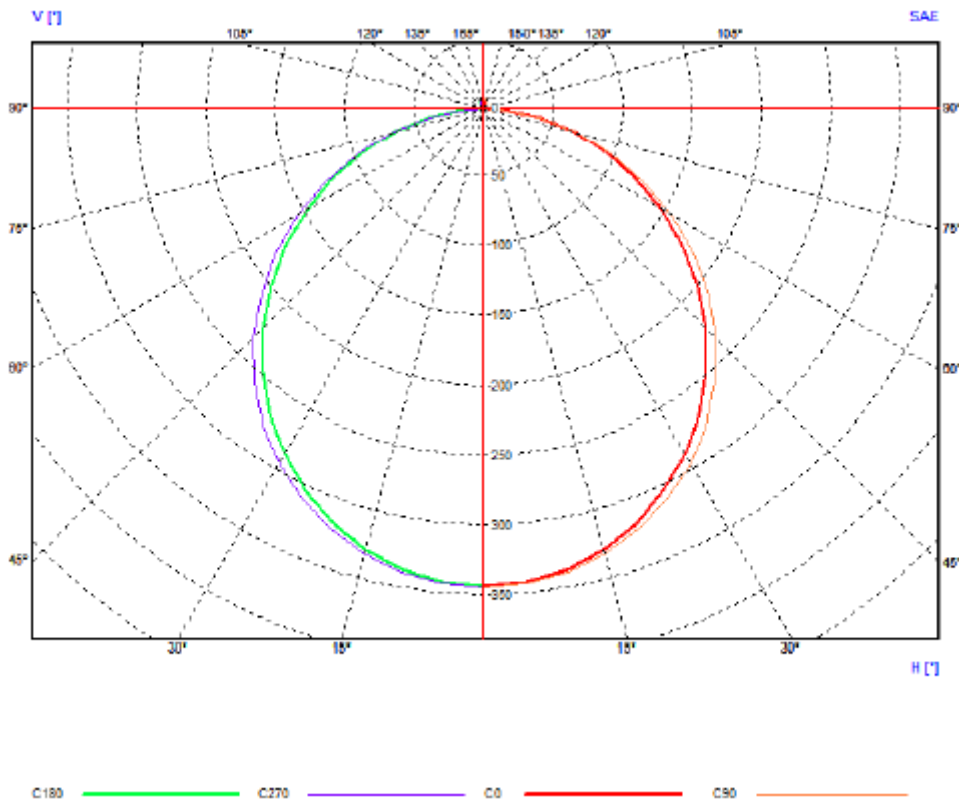


Figure 1. Polar Diagram

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Table 6. Luminous Intensities (cd)

Gamma	0	5	10	15	20	25	30	35	40	45	50	55
0	2299.4	2299.4	2299.4	2299.4	2302.1	2302.1	2302.1	2302.1	2302.1	2304.7	2304.7	2304.7
5	2288.8	2288.8	2288.8	2288.8	2288.8	2291.5	2291.5	2291.5	2291.5	2291.5	2294.1	2294.1
10	2254.4	2254.4	2254.4	2254.4	2257	2257	2257	2257	2259.7	2262.3	2262.3	2265
15	2198.7	2198.7	2198.7	2198.7	2201.4	2204	2204	2206.7	2206.7	2209.3	2212	2214.6
20	2124.6	2124.6	2124.6	2124.6	2127.2	2129.9	2129.9	2132.5	2135.2	2137.8	2143.1	2145.8
25	2031.8	2029.2	2029.2	2031.8	2034.5	2037.1	2039.8	2042.4	2045.1	2050.4	2053	2058.3
30	1920.6	1919.3	1920.3	1921.6	1924.3	1927.7	1929.9	1934.4	1938.9	1943.9	1949.5	1954
35	1793.7	1792.4	1793.7	1795.5	1798.2	1801.6	1805.1	1809.1	1814.4	1820.7	1826.3	1832.1
40	1653.3	1652	1652.8	1654.9	1657.8	1661	1665.2	1669.7	1675.5	1681.9	1687.7	1694.1
45	1499.6	1498.9	1499.9	1502	1504.9	1508.4	1512.6	1516.9	1522.7	1529.3	1534.9	1541
50	1337.3	1336.5	1337.3	1339.4	1342	1345.2	1348.9	1353.7	1359.5	1365.6	1371.4	1377
55	1162.9	1163.2	1163.7	1165.1	1168.2	1170.9	1174.1	1178.6	1183.6	1189.2	1194.2	1199.5
60	983.3	983.6	983.9	985.5	987.8	990	993.1	996.8	1001.4	1006.1	1010.6	1015.1
65	799.5	799.8	800.3	801.6	803.2	805.3	807.7	810.9	814.3	818.3	821.7	825.5
70	616.7	616.7	617	618	619.1	620.7	622.5	624.9	627.6	630.2	633.1	636
75	439.5	439.2	439.5	440	441.1	441.9	442.9	444.5	446.4	448	449.8	451.7
80	271.3	271.3	271.3	271.5	272.1	272.3	272.6	273.7	274.4	275.2	276.3	277.1
85	123.7	123.8	123.7	123.6	123.5	123.4	123.3	123.3	123.3	123.4	123.5	123.6
90	24.1	24.1	23.8	23.3	22.6	21.7	20.7	19.5	18.1	16.6	14.9	13.2
95	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.1
100	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5
105	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.6	2.6
110	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.7
115	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
120	11.9	12	12.1	12.3	12.5	12.8	13.1	13.2	13.4	13.4	13.4	13.4
125	8	8.2	8.3	8.5	8.6	8.7	8.7	8.7	8.6	8.5	8.3	8.2
130	10	9.7	9.4	9	8.8	8.5	8.3	8.1	7.9	8	8.1	8.4
135	13.2	13.4	13.3	13.3	13.4	13.4	13.5	13.5	13.6	13.6	13.7	13.7
140	12.3	12.2	12.2	12.3	12.3	12.4	12.4	12.5	12.5	12.6	12.6	12.7
145	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.5	13.4	13.5	13.5	13.5
150	19.9	19.9	20	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.2	20.2
155	29.4	29.4	29.4	29.7	30	30.4	30.8	31.2	31.6	32	32.4	32.8
160	37.1	36.8	37.3	38	38.8	39.7	40.8	41.9	43	44.2	45.3	46.4
165	39.5	39.3	39.6	40.5	41.6	42.9	44.3	45.9	47.4	49	50.4	51.7
170	38.4	38.3	38.5	39	39.8	40.7	41.7	42.8	44	45.2	46.5	47.6
175	34.4	34.3	34.6	35	35.7	36.3	37	37.7	38.3	38.9	39.5	40.2
180	34.5	34.5	34.6	34.8	35	35.4	35.8	36.2	36.7	37.3	37.9	38.6

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Table 6 Continued...

Gamma	60	65	70	75	80	85	90	95	100	105	110	115
0	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
5	2294.1	2294.1	2294.1	2296.8	2296.8	2294.1	2296.8	2296.8	2296.8	2296.8	2294.1	2294.1
10	2265	2265	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6
15	2217.3	2217.3	2219.9	2219.9	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2219.9
20	2148.4	2151.1	2153.7	2153.7	2156.4	2159	2159	2159	2159	2159	2156.4	2153.7
25	2061	2066.3	2068.9	2071.6	2074.2	2074.2	2076.9	2076.9	2076.9	2074.2	2071.6	2071.6
30	1959	1963.8	1968	1970.4	1973.6	1975.2	1976.5	1977	1976.2	1975.2	1972.5	1969.3
35	1837.4	1842.7	1847.2	1850.6	1853.8	1855.9	1857.5	1858.1	1857	1855.4	1852.8	1848.8
40	1699.7	1705.5	1710.5	1714	1717.1	1720.3	1720.8	1721.6	1720.8	1719	1716.1	1711.8
45	1547.3	1552.9	1557.9	1561.9	1565.1	1567.5	1568.8	1569.1	1568.3	1566.4	1563	1559.2
50	1382.8	1388.1	1392.6	1396.9	1399.8	1402.7	1403.7	1403.7	1403.2	1401.1	1398.5	1394.5
55	1204.8	1209.3	1213.5	1217.3	1220.4	1222.8	1224.1	1223.9	1223.1	1221.8	1219.1	1215.7
60	1019.6	1023.3	1027	1030.2	1032.9	1035.3	1036.1	1036.3	1035.8	1034.5	1031.8	1029.2
65	828.9	832.3	835.3	837.6	840	841.9	842.9	843.2	842.9	841.6	839.8	837.4
70	638.7	641.3	643.5	645.6	647.4	648.8	649.6	649.6	649.3	648.5	646.9	645.3
75	453.5	455.1	456.7	458	459.4	460.1	460.9	460.9	460.7	460.1	459.4	458.3
80	277.9	278.9	279.7	280.5	281.3	281.6	282.1	282.1	282.1	282.1	281.6	281.3
85	123.7	123.8	123.9	124.1	124.2	124.3	124.6	124.5	124.7	124.7	124.8	124.9
90	11.4	9.5	7.6	5.6	3.6	2.1	1.6	1.7	3.2	5.1	7.2	9.3
95	2.1	2	2	2	2	2	2	2	2	2	2	2
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	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
110	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
115	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.2
120	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.1	13	12.7
125	8	7.8	7.7	7.5	7.3	7	6.8	6.7	6.6	6.4	6.3	6.2
130	8.7	9	9.3	9.6	9.9	10.3	10.7	11	11.3	11.5	11.7	11.9
135	13.8	13.9	13.9	13.9	14	14	14	14	14	14	13.9	13.9
140	12.7	12.8	12.8	12.9	13	13	13	13	13	13	12.9	12.8
145	13.5	13.4	13.4	13.3	13.2	13.2	13.1	13.1	13.2	13.2	13.2	13.3
150	20.2	20.2	20.1	20	19.9	19.7	19.7	19.7	19.8	19.8	19.9	20.1
155	33.1	33.3	33.4	33.5	33.6	33.6	33.6	33.6	33.5	33.4	33.4	33.1
160	47.4	48.1	48.7	49	49.2	49.1	49	49	48.8	48.6	48.5	48.1
165	52.9	53.9	54.7	55.4	55.9	56.5	57.1	57.2	57.1	56.6	56.2	55.6
170	48.7	49.7	50.5	51.6	52.4	53.2	53.8	53.9	53.8	53.5	53	52.4
175	40.9	41.8	42.8	43.8	44.8	45.5	45.7	45.6	45.4	44.9	44.1	43.3
180	39.2	39.6	39.7	39.9	40	40.1	39.9	39.8	39.7	39.4	39.2	38.9

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Table 7. Luminous Intensities (cd)

Gamma	120	125	130	135	140	145	150	155	160	165	170	175
0	2304.7	2302.1	2302.1	2302.1	2302.1	2304.7	2302.1	2302.1	2302.1	2302.1	2299.4	2299.4
5	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2294.1	2291.5	2291.5	2288.8	2288.8	2288.8
10	2265	2265	2262.3	2262.3	2265	2262.3	2262.3	2259.7	2259.7	2257	2257	2257
15	2217.3	2217.3	2214.6	2212	2212	2212	2209.3	2206.7	2206.7	2204	2201.4	2201.4
20	2151.1	2151.1	2145.8	2145.8	2143.1	2140.5	2137.8	2135.2	2132.5	2129.9	2127.2	2127.2
25	2068.9	2063.6	2061	2055.7	2055.7	2050.4	2047.7	2045.1	2039.8	2037.1	2034.5	2031.8
30	1965.9	1962.2	1957.1	1952.9	1948.9	1944.7	1940.5	1935.7	1932	1928.3	1925.6	1924.3
35	1845.1	1840.8	1835.3	1830.5	1825.7	1820.7	1816.2	1810.6	1805.9	1802.4	1799.5	1797.4
40	1707.6	1703.4	1697.5	1692	1686.4	1680.8	1676.1	1670.5	1665.5	1662	1658.9	1657.3
45	1554.7	1550.2	1544.7	1538.6	1533.3	1527.7	1522.4	1517.4	1512.1	1508.9	1505.7	1503.4
50	1390	1385.7	1380.4	1374.6	1369.6	1364	1359	1354.2	1349.4	1346	1343.1	1340.7
55	1212	1207.5	1202.7	1197.7	1192.9	1187.6	1183.3	1178.8	1174.6	1171.4	1168.8	1166.9
60	1025.5	1021.8	1017.8	1013.3	1009	1004.8	1000.6	996.8	993.1	990.8	988.4	986.8
65	834.5	831.3	827.8	824.7	821.2	817.5	814.3	811.1	808.2	806.1	804.3	803.2
70	643.5	641.1	638.4	635.8	633.4	630.7	628.4	626	623.9	622.3	620.9	620.2
75	457.2	455.6	454.1	452.5	450.6	449.3	447.7	446.1	445	444	442.9	442.7
80	280.5	279.7	279.2	278.4	277.6	277.1	276.3	275.5	275	274.7	274.2	274.2
85	124.9	125	125.1	125.1	125.1	125.1	125.2	125.3	125.3	125.5	125.5	125.6
90	11.3	13.1	14.9	16.6	18.2	19.7	20.9	22.1	23	23.8	24.3	24.7
95	2	2	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	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
110	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
115	12.2	12.2	12.2	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
120	12.5	12.3	12.1	12	11.8	11.8	11.8	11.9	11.8	11.8	11.9	11.9
125	6.1	6.1	6.1	6.2	6.3	6.4	6.5	6.7	6.9	7.1	7.4	7.7
130	12.1	12.2	12.2	12.2	12.2	12.1	12	11.8	11.5	11.1	10.8	10.4
135	13.9	13.8	13.8	13.7	13.7	13.7	13.6	13.5	13.4	13.3	13.2	13.2
140	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.4	12.3	12.3	12.2	12.2
145	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
150	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.2	20.2	20.2	20.1
155	33.1	33	32.8	32.6	32.2	31.9	31.5	31.1	30.7	30.3	30	29.7
160	47.7	47.1	46.3	45.3	44.3	43.3	42.3	41.2	40.2	39.3	38.5	37.8
165	54.8	53.9	52.7	51.4	50.1	48.6	47	45.5	43.9	42.5	41.3	40.2
170	51.7	50.8	49.8	48.6	47.3	45.9	44.5	43.1	41.9	40.7	39.7	38.9
175	42.6	42	41.2	40.5	39.7	39	38.3	37.5	36.8	36.1	35.4	34.8
180	38.7	38.3	37.7	37.1	36.5	36.1	35.7	35.3	35	34.8	34.7	34.6

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Table 6 Continued...

Gamma	180	185	190	195	200	205	210	215	220	225	230	235
0	2302.1	2302.1	2302.1	2299.4	2302.1	2302.1	2302.1	2302.1	2302.1	2304.7	2304.7	2304.7
5	2288.8	2288.8	2288.8	2288.8	2291.5	2291.5	2291.5	2291.5	2291.5	2294.1	2294.1	2294.1
10	2257	2254.4	2257	2257	2257	2259.7	2259.7	2259.7	2259.7	2262.3	2262.3	2265
15	2201.4	2201.4	2201.4	2201.4	2204	2204	2206.7	2206.7	2209.3	2212	2214.6	2214.6
20	2127.2	2124.6	2127.2	2127.2	2127.2	2129.9	2132.5	2135.2	2137.8	2140.5	2143.1	2148.4
25	2034.5	2031.8	2034.5	2034.5	2037.1	2039.8	2042.4	2045.1	2047.7	2053	2055.7	2061
30	1923	1922.4	1923.8	1924.3	1927.7	1930.4	1933.3	1937.3	1941.8	1947.1	1952.4	1956.9
35	1796.9	1795.8	1796.6	1798.7	1801.6	1805.1	1808.3	1812.8	1818.1	1823.6	1829.2	1835
40	1656.5	1655.7	1656.5	1658.6	1661.2	1664.9	1668.9	1673.4	1679	1684.8	1690.9	1697.3
45	1503.4	1502.3	1503.4	1505.7	1508.4	1512.1	1516.1	1520.6	1526.4	1532.5	1538.3	1544.4
50	1340.4	1340.2	1341.2	1343.1	1346	1349.4	1353.2	1357.9	1363.5	1369.3	1374.9	1380.7
55	1166.9	1167.2	1167.7	1169.3	1172	1174.9	1178.3	1182.8	1188.1	1193.4	1198.2	1203.7
60	986.8	987.3	988.1	989.4	991.8	994.2	997.4	1001.6	1005.9	1010.4	1015.1	1019.4
65	803.2	803.7	804	805.6	807.2	809.6	811.9	815.1	819.1	822.5	826.2	830
70	620.2	620.4	620.9	622	623.6	625.2	627	629.4	632.3	635	637.9	640.5
75	442.7	442.9	443.2	444	445	446.1	447.4	449	450.9	452.5	454.6	456.2
80	274.2	274.4	274.7	275	275.5	276.3	276.8	277.6	278.7	279.5	280.5	281.3
85	125.8	126	126.1	126.1	126.2	126.3	126.3	126.5	126.7	126.8	127	127
90	24.9	24.9	24.6	24.2	23.6	22.8	21.8	20.6	19.3	17.8	16.2	14.5
95	2.1	2.1	2.1	2.1	2.1	2.1	2	2	2	2	2	2
100	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3
105	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
110	4.7	4.7	4.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
115	12.3	12.4	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
120	11.9	12.1	12.2	12.3	12.6	12.8	13.1	13.2	13.4	13.4	13.4	13.4
125	8.1	8.3	8.4	8.5	8.6	8.7	8.7	8.7	8.6	8.5	8.3	8.2
130	10.1	9.7	9.4	9	8.7	8.5	8.2	8	7.8	7.8	8	8.2
135	13.3	13.3	13.3	13.3	13.3	13.4	13.4	13.4	13.5	13.6	13.6	13.7
140	12.3	12.3	12.3	12.3	12.3	12.4	12.4	12.5	12.5	12.6	12.6	12.7
145	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
150	20.1	20.1	20.2	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
155	29.6	29.6	29.6	29.9	30.3	30.6	31.1	31.5	31.9	32.3	32.7	33
160	37.2	37	37.5	38.2	39	40	41.1	42.2	43.3	44.5	45.6	46.7
165	39.5	39.3	39.7	40.6	41.7	43.1	44.6	46.1	47.7	49.2	50.7	51.9
170	38.4	38.3	38.5	39.1	39.9	40.8	41.9	43	44.2	45.5	46.7	47.9
175	34.4	34.3	34.6	35.1	35.7	36.4	37.1	37.9	38.5	39	39.7	40.4
180	34.5	34.4	34.6	34.8	35	35.4	35.8	36.3	36.8	37.3	37.9	38.6

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Table 8. Luminous Intensities (cd)

Gamma	240	245	250	255	260	265	270	275	280	285	290	295
0	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7	2304.7
5	2296.8	2296.8	2296.8	2296.8	2294.1	2296.8	2296.8	2296.8	2296.8	2296.8	2294.1	2294.1
10	2265	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6	2267.6
15	2217.3	2219.9	2219.9	2222.6	2222.6	2222.6	2225.2	2222.6	2222.6	2222.6	2219.9	2219.9
20	2151.1	2151.1	2153.7	2156.4	2156.4	2159	2159	2159	2159	2156.4	2156.4	2153.7
25	2063.6	2066.3	2071.6	2074.2	2074.2	2076.9	2076.9	2076.9	2076.9	2074.2	2071.6	2068.9
30	1961.6	1966.1	1969.1	1972.8	1974.9	1975.4	1977.3	1977.3	1976	1974.4	1971.4	1968
35	1840.1	1845.4	1849.3	1852.5	1855.4	1857.3	1858.1	1858.3	1856.7	1854.6	1851.7	1847.2
40	1702.6	1707.9	1712.4	1715.5	1718.7	1720.8	1721.4	1721.4	1720	1717.7	1714.5	1710
45	1550.5	1555.3	1559.8	1563.5	1566.4	1568.8	1569.3	1569.3	1567.5	1565.1	1561.9	1557.4
50	1385.7	1391	1395.3	1398.7	1401.6	1403.5	1404.3	1404	1402.7	1400.3	1397.1	1393.2
55	1208.5	1212.8	1216.7	1219.6	1222.6	1224.7	1225.2	1224.4	1223.3	1221.2	1218	1214.3
60	1023.3	1027.3	1030.5	1033.4	1035.8	1037.4	1037.9	1037.4	1036.3	1034.5	1031.8	1028.4
65	833.1	836.3	839	841.1	843.2	844.3	844.8	844.5	843.5	841.9	839.8	836.8
70	642.9	645.6	647.4	649	650.6	651.4	651.9	651.7	650.6	649.3	647.7	645.3
75	457.8	459.6	460.7	461.7	462.8	463.3	463.3	463.1	462.3	461.5	460.4	458.6
80	282.1	282.9	283.7	284.2	284.5	284.5	284.8	284.5	284	283.5	282.7	281.9
85	127.2	127.3	127.3	127.4	127.3	127.3	127.2	127	126.8	126.6	126.4	126.1
90	12.7	10.8	8.7	6.5	4.3	2.1	1.6	1.7	3.5	5.5	7.5	9.6
95	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
100	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
105	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
110	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
115	12.3	12.3	12.3	12.3	12.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2
120	13.4	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.1	12.9	12.7
125	8	7.8	7.7	7.5	7.3	7	6.8	6.6	6.5	6.4	6.2	6.1
130	8.6	8.8	9.2	9.5	9.8	10.2	10.6	10.9	11.2	11.4	11.6	11.8
135	13.7	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.8
140	12.7	12.7	12.8	12.9	13	13	13	13	13	13	12.9	12.8
145	13.5	13.5	13.4	13.3	13.2	13.2	13.2	13.1	13.2	13.2	13.2	13.3
150	20.3	20.3	20.2	20.1	19.9	19.8	19.8	19.8	19.8	19.9	20	20.1
155	33.3	33.5	33.6	33.7	33.7	33.7	33.7	33.7	33.6	33.6	33.5	33.2
160	47.7	48.4	48.9	49.2	49.4	49.3	49.2	49.2	49	48.8	48.6	48.2
165	53.1	54.1	54.9	55.6	56.1	56.7	57.2	57.4	57.2	56.7	56.3	55.7
170	49	49.9	50.8	51.8	52.7	53.4	54	54.1	54	53.7	53.1	52.5
175	41.1	42	43	44	45	45.7	45.9	45.8	45.5	45	44.2	43.4
180	39.3	39.6	39.7	39.9	40	40.2	40	39.8	39.8	39.4	39.2	39

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Table 6 Continued...

Gamma	300	305	310	315	320	325	330	335	340	345	350	355
0	2304.7	2302.1	2302.1	2302.1	2302.1	2304.7	2302.1	2302.1	2302.1	2302.1	2299.4	2299.4
5	2294.1	2291.5	2291.5	2291.5	2294.1	2294.1	2291.5	2291.5	2291.5	2288.8	2288.8	2288.8
10	2265	2265	2262.3	2262.3	2262.3	2262.3	2262.3	2259.7	2257	2257	2254.4	2254.4
15	2217.3	2217.3	2214.6	2212	2212	2212	2209.3	2206.7	2204	2201.4	2198.7	2201.4
20	2151.1	2148.4	2145.8	2143.1	2140.5	2137.8	2137.8	2132.5	2129.9	2127.2	2124.6	2124.6
25	2066.3	2063.6	2058.3	2055.7	2053	2050.4	2045.1	2039.8	2037.1	2034.5	2031.8	2031.8
30	1964.3	1960.1	1955.3	1951	1946.8	1942.3	1938.1	1933.3	1929.3	1925.9	1922.2	1921.1
35	1843.8	1838.7	1832.9	1828.1	1823.1	1817.8	1813.6	1807.2	1803	1799.5	1796.1	1794.5
40	1705.7	1701.2	1694.6	1689.3	1683.8	1677.9	1673.2	1667.6	1662.6	1658.9	1655.4	1653.6
45	1553.2	1548.4	1542	1536.2	1530.6	1524.5	1519.2	1513.7	1508.9	1505.5	1502.3	1500.2
50	1388.4	1383.4	1377.8	1372.2	1366.4	1360.8	1355.8	1350.8	1346	1342.3	1339.6	1337
55	1210.4	1205.6	1200.3	1195.3	1190.2	1184.9	1180.2	1175.7	1171.2	1168.2	1165.3	1163.2
60	1024.7	1020.4	1015.7	1011.4	1006.9	1002.1	998.2	994.2	990.2	987.6	985.2	983.3
65	833.7	830.2	826.2	822.8	819.1	815.4	811.9	808.5	805.3	802.9	801.1	799.8
70	642.9	640.3	637.4	634.7	631.8	628.9	626.5	623.6	621.5	619.4	617.8	617
75	457.2	455.1	453.3	451.4	449.5	447.7	445.8	444	442.7	441.3	440	439.5
80	281.1	280	278.7	277.9	276.6	275.8	274.7	273.7	273.1	272.3	271.8	271.5
85	126	125.7	125.5	125.2	124.9	124.8	124.5	124.3	124.2	124.1	124	123.8
90	11.5	13.3	15	16.6	18.1	19.5	20.7	21.7	22.5	23.2	23.7	24
95	1.9	1.9	1.9	1.9	1.9	2	2	2	2	2	2	2.1
100	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
105	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
110	4.6	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
115	12.2	12.2	12.2	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
120	12.5	12.3	12.1	11.9	11.8	11.7	11.7	11.8	11.8	11.8	11.8	11.9
125	6.1	6	6	6.1	6.2	6.3	6.4	6.6	6.8	7	7.3	7.6
130	12	12.1	12.1	12.1	12.1	12.1	11.9	11.7	11.4	11	10.6	10.4
135	13.8	13.7	13.7	13.7	13.7	13.6	13.6	13.5	13.4	13.3	13.2	13.2
140	12.7	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.3	12.3	12.2	12.2
145	13.3	13.3	13.3	13.3	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
150	20.2	20.3	20.3	20.3	20.3	20.3	20.2	20.2	20.2	20.1	20.1	20
155	33.2	33.1	32.8	32.6	32.2	31.8	31.5	31.1	30.6	30.2	29.9	29.5
160	47.7	47.2	46.3	45.4	44.3	43.3	42.3	41.3	40.2	39.2	38.4	37.7
165	54.9	54	52.8	51.5	50.2	48.7	47.1	45.5	44	42.6	41.3	40.2
170	51.8	50.9	49.9	48.7	47.4	46	44.5	43.2	41.9	40.7	39.7	38.9
175	42.7	42	41.3	40.5	39.7	39	38.3	37.5	36.8	36.1	35.4	34.9
180	38.7	38.3	37.7	37.1	36.6	36.1	35.7	35.4	35.1	34.8	34.8	34.7

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PRODUCT DIAGRAM & IDENTIFICATION OF PHOTOMETRIC CENTRE

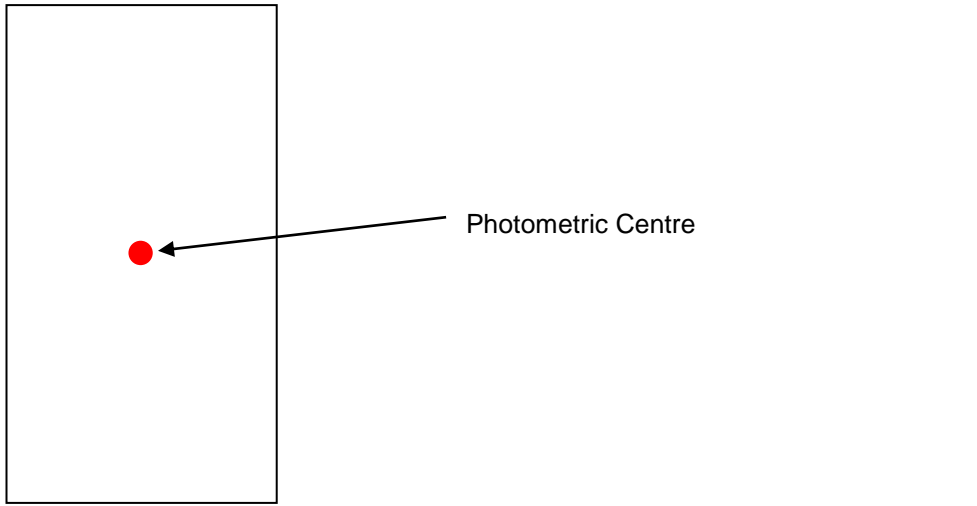


Figure 2. *Product photometric centre*

ILLUSTRATION



Figure 3. *Product image*

End