

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P242818

Luminaire Tested: S125DRP-S1090D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S1090D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

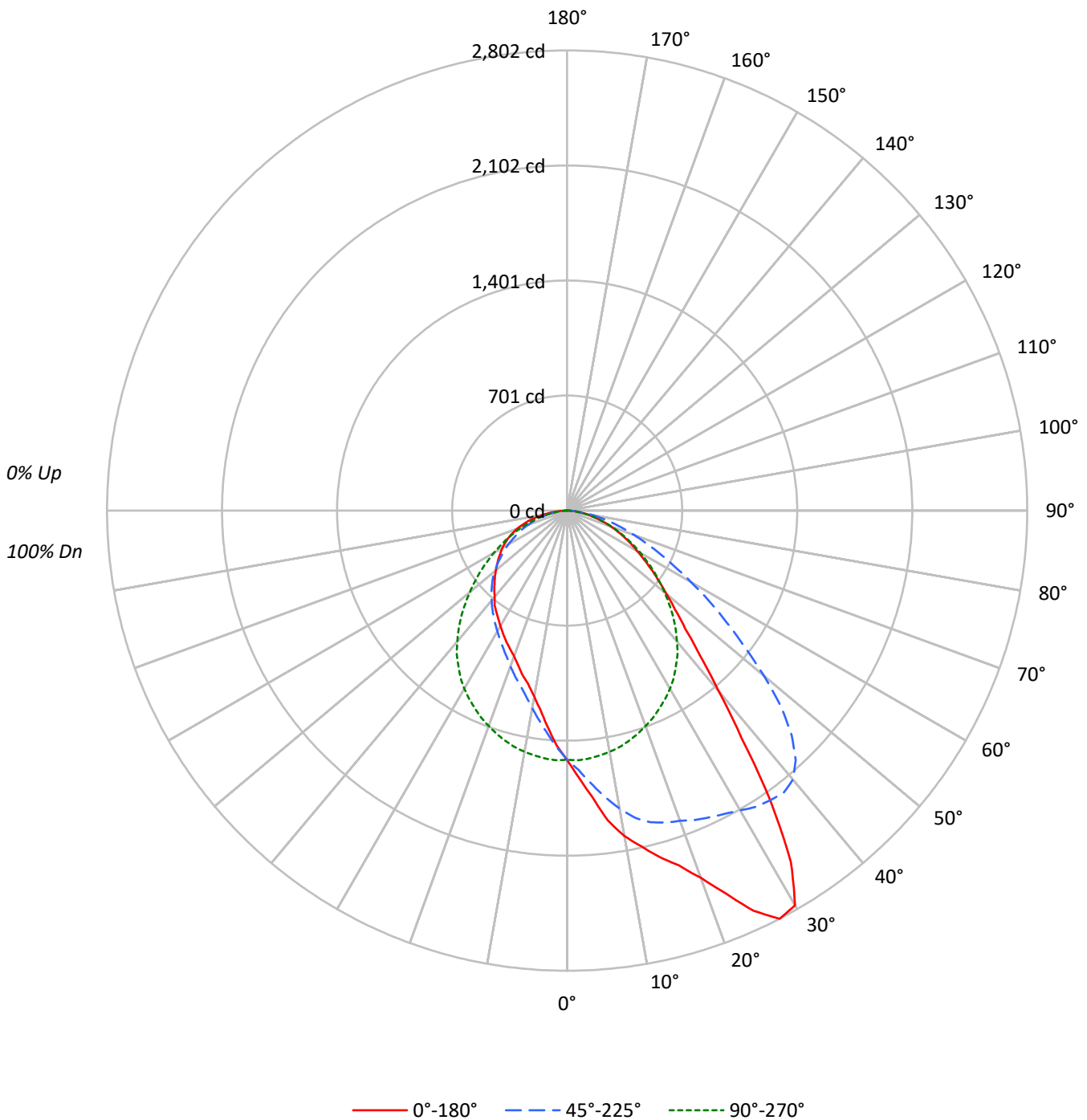
Lumens per Lamp: N/A
Luminaire Lumens: 4280.9 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41					41			
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10782	10782	10782	10782	10782
5°	12486	11893	10818	9729	9472
10°	14526	13299	10762	8815	8300
15°	16080	14455	10684	8101	7656
20°	18000	15204	10558	7632	7139
25°	21087	16153	10417	7236	6888
30°	22775	17301	10278	6970	6669
35°	18726	18687	10017	6788	6526
40°	13310	19846	9654	6637	6368
45°	10225	19422	9164	6504	6278
50°	8728	17279	8557	6343	6265
55°	7771	14673	7963	6111	6320
60°	7011	12392	7313	5895	6480
65°	6475	10558	6660	5599	6648
70°	5887	8977	5981	5218	6743
75°	5198	7673	5270	4808	6684
80°	4375	6299	4298	4085	6115
85°	3466	4567	3099	3360	4934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19422 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.4
10°-20°	434.9	10.2
20°-30°	706.4	16.5
30°-40°	863.3	20.2
40°-50°	783.2	18.3
50°-60°	623.8	14.6
60°-70°	434.5	10.1
70°-80°	231.4	5.4
80°-90°	57.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1287.3	30.1
0°-40°	2150.6	50.2
0°-60°	3557.6	83.1
0°-90°	4280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1517	1517	1517	1517	1517	
5°	1750	1667	1516	1364	1328	176
15°	2185	1964	1452	1101	1040	625
25°	2689	2060	1328	923	878	1232
35°	2158	2154	1154	782	752	1324
45°	1017	1932	912	647	625	809
55°	627	1184	643	493	510	564
65°	385	628	396	333	395	382
75°	189	279	192	175	243	204
85°	42	56	38	41	60	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1626.4	1623.9	1621.3	1616.1	1620.0	1609.1	1603.9	1594.9	1584.0	1580.1	1575.6
5°	1750.1	1753.3	1756.5	1743.0	1744.3	1735.3	1714.7	1697.9	1684.4	1667.0	1654.8
7.5°	1903.3	1893.7	1894.3	1885.9	1871.1	1858.9	1838.9	1811.2	1786.1	1757.8	1733.3
10°	2012.8	2013.4	2007.6	1997.3	1981.2	1969.6	1941.3	1914.3	1881.4	1842.8	1815.1
12.5°	2095.2	2098.4	2090.7	2075.9	2070.1	2040.5	2019.9	1986.4	1945.8	1916.8	1871.1
15°	2185.3	2178.3	2173.1	2155.7	2142.2	2115.2	2079.7	2046.3	2003.8	1964.5	1925.2
17.5°	2265.2	2271.0	2262.6	2249.7	2209.8	2178.3	2134.5	2092.0	2041.1	1992.2	1946.5
20°	2379.8	2384.9	2370.1	2342.4	2292.2	2260.7	2198.2	2139.0	2077.8	2010.2	1958.7
22.5°	2522.7	2516.3	2495.0	2449.3	2407.5	2342.4	2273.6	2198.2	2117.7	2039.2	1966.4
25°	2688.9	2661.8	2649.6	2597.4	2540.1	2454.5	2361.8	2256.2	2160.9	2059.8	1972.2
27.5°	2802.2	2791.2	2773.8	2731.4	2665.7	2568.4	2459.0	2332.8	2204.7	2081.0	1970.9
30°	2775.1	2776.4	2777.7	2766.1	2727.5	2658.6	2549.8	2411.3	2251.7	2108.1	1975.4
32.5°	2535.6	2564.6	2592.3	2628.3	2651.5	2652.2	2594.2	2472.5	2307.0	2139.0	1972.9
35°	2158.3	2165.4	2238.1	2310.3	2408.1	2484.1	2535.0	2479.6	2341.2	2153.8	1970.9
37.5°	1744.9	1780.3	1835.1	1916.2	2063.0	2182.8	2339.9	2394.0	2328.9	2166.0	1970.3
40°	1434.6	1466.8	1499.6	1582.7	1701.8	1855.0	2039.8	2197.6	2234.3	2139.0	1951.0
42.5°	1195.0	1218.9	1256.2	1313.5	1408.2	1539.5	1714.0	1932.3	2081.7	2060.4	1910.4
45°	1017.3	1033.4	1061.8	1111.3	1183.5	1289.7	1445.5	1670.9	1867.3	1932.3	1841.5
47.5°	891.1	891.8	915.0	950.4	1005.1	1103.0	1219.5	1405.0	1616.8	1766.8	1745.6
50°	789.4	786.2	803.6	833.2	874.4	934.3	1044.4	1185.4	1386.9	1562.7	1611.6
52.5°	701.8	703.1	712.1	732.1	764.9	813.9	889.2	1012.8	1177.7	1359.2	1462.3
55°	627.1	624.6	636.8	651.6	676.7	710.2	769.4	866.7	1006.4	1184.1	1303.9
57.5°	555.0	562.1	567.3	577.6	599.5	622.6	675.4	750.1	865.4	1023.1	1150.0
60°	493.2	500.3	504.2	514.5	531.2	550.5	589.2	647.1	740.5	871.8	997.4
62.5°	437.8	443.0	443.6	452.6	465.5	484.2	512.5	558.9	627.8	738.5	860.9
65°	385.0	385.0	387.6	397.3	403.7	420.5	443.6	479.0	538.3	627.8	732.7
67.5°	333.5	336.8	336.1	340.6	346.4	360.6	378.0	407.6	454.6	522.2	609.1
70°	283.3	285.9	285.2	288.5	294.9	303.3	316.8	344.5	376.0	432.0	504.2
72.5°	238.2	238.9	236.9	241.5	244.7	251.8	267.2	278.8	307.8	352.8	408.9
75°	189.3	190.6	191.9	194.5	198.3	202.2	209.9	224.7	244.0	279.4	317.4
77.5°	150.7	147.4	151.3	150.7	152.6	155.8	162.9	171.3	188.0	211.8	243.4
80°	106.9	107.5	107.5	108.2	111.4	113.3	119.1	124.9	137.1	153.9	174.5
82.5°	70.8	72.8	71.5	72.8	75.3	76.6	79.2	83.7	89.5	101.7	115.3
85°	42.5	39.3	40.6	41.9	41.9	42.5	45.1	47.0	50.9	56.0	61.8
87.5°	15.5	16.7	17.4	17.4	18.0	18.0	20.6	20.6	22.5	24.5	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1571.7	1567.2	1562.1	1553.0	1542.1	1536.3	1527.3	1521.5	1509.9	1500.2	1489.9
5°	1640.0	1623.2	1607.8	1587.8	1565.9	1551.8	1535.0	1516.3	1497.0	1477.1	1455.2
7.5°	1708.2	1680.5	1650.3	1618.7	1587.8	1558.8	1531.8	1504.1	1479.0	1447.4	1421.0
10°	1777.1	1739.8	1699.9	1652.8	1607.1	1567.2	1526.6	1491.2	1455.2	1416.5	1382.4
12.5°	1846.0	1793.2	1732.7	1679.9	1622.6	1572.4	1522.8	1475.1	1427.5	1383.7	1342.5
15°	1871.1	1827.3	1775.2	1701.8	1640.0	1573.7	1510.5	1452.0	1397.2	1349.6	1299.4
17.5°	1895.6	1839.6	1784.2	1713.4	1632.9	1561.4	1489.9	1426.2	1365.7	1305.8	1260.1
20°	1901.4	1843.4	1784.8	1715.9	1632.9	1547.9	1476.4	1395.9	1329.6	1267.2	1207.9
22.5°	1899.5	1831.8	1766.8	1695.3	1614.9	1538.2	1448.1	1365.7	1292.3	1231.1	1168.6
25°	1885.3	1815.1	1735.3	1663.8	1584.0	1500.9	1413.3	1328.3	1254.9	1184.7	1123.6
27.5°	1876.9	1788.1	1700.5	1618.1	1541.5	1464.8	1379.8	1292.3	1211.8	1140.3	1083.7
30°	1858.2	1758.4	1656.7	1569.8	1490.6	1416.5	1337.3	1252.4	1167.4	1097.8	1036.0
32.5°	1841.5	1721.1	1612.3	1515.7	1430.7	1359.2	1287.8	1207.9	1124.9	1054.0	992.2
35°	1819.0	1684.4	1561.4	1454.5	1365.0	1291.0	1229.8	1154.5	1077.9	1009.6	950.4
37.5°	1792.6	1636.8	1506.7	1395.3	1298.1	1220.8	1162.9	1104.3	1027.6	960.7	907.9
40°	1760.4	1585.2	1445.5	1330.9	1229.2	1148.0	1095.2	1040.5	979.3	918.2	861.5
42.5°	1719.8	1538.9	1383.7	1258.1	1157.7	1079.1	1023.1	978.7	926.5	870.5	819.0
45°	1668.3	1480.9	1316.1	1183.5	1081.7	1003.8	946.5	911.7	871.2	817.1	772.7
47.5°	1600.0	1415.3	1245.3	1108.1	1003.2	931.1	876.3	842.2	812.6	770.1	728.2
50°	1502.8	1339.9	1167.4	1031.5	926.5	853.8	804.2	773.9	749.5	718.6	684.4
52.5°	1394.0	1245.3	1090.7	956.8	853.1	781.7	733.4	707.6	688.3	668.4	634.9
55°	1277.5	1148.7	1001.9	874.4	778.5	708.3	665.8	642.6	625.9	609.1	588.5
57.5°	1151.9	1047.6	913.0	793.9	705.1	639.4	599.5	575.6	562.1	553.1	540.2
60°	1018.0	931.7	819.7	713.4	627.1	570.5	531.8	514.5	503.5	496.4	487.4
62.5°	893.7	826.7	725.0	630.4	557.6	504.8	471.3	454.6	444.3	441.7	434.6
65°	772.0	717.3	631.6	551.2	486.8	441.1	412.1	396.0	389.5	385.7	386.3
67.5°	649.7	614.3	542.8	472.0	419.2	378.6	354.8	342.5	339.3	333.5	333.5
70°	539.6	514.5	456.5	396.6	350.9	321.3	300.7	287.8	284.6	282.0	281.4
72.5°	442.3	421.1	372.8	327.7	287.8	262.7	246.6	240.2	234.4	233.1	233.1
75°	347.1	334.8	294.9	256.9	228.6	210.5	199.0	191.9	188.0	187.4	188.0
77.5°	262.1	250.5	222.8	194.5	175.8	161.6	150.7	148.7	143.6	144.2	142.9
80°	185.4	178.4	162.3	141.0	126.2	114.6	109.5	105.0	103.7	101.7	103.7
82.5°	121.7	114.0	104.3	92.7	81.1	75.3	70.2	69.5	68.9	68.3	68.3
85°	66.3	67.0	60.5	50.2	45.1	41.2	38.0	38.0	37.3	36.7	37.3
87.5°	28.3	27.0	24.5	22.5	19.3	17.4	16.7	17.4	15.5	14.8	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1484.2	1477.1	1471.3	1458.4	1451.3	1441.7	1433.9	1442.3	1433.3	1437.1	1431.4
5°	1444.2	1426.2	1413.3	1394.7	1378.6	1363.7	1352.8	1350.9	1345.7	1343.1	1335.4
7.5°	1396.6	1376.0	1354.7	1331.6	1312.2	1291.6	1279.4	1267.8	1260.7	1251.7	1244.6
10°	1355.4	1325.1	1299.4	1269.7	1244.0	1221.4	1203.4	1194.4	1186.0	1173.8	1169.3
12.5°	1304.5	1273.0	1240.1	1207.9	1183.5	1157.7	1142.9	1128.1	1122.9	1108.8	1108.1
15°	1265.9	1218.9	1188.0	1155.8	1121.6	1101.0	1088.2	1073.4	1066.9	1057.3	1050.2
17.5°	1218.2	1175.7	1137.1	1104.3	1073.4	1056.6	1039.9	1029.6	1018.6	1011.5	1000.0
20°	1165.4	1125.5	1086.9	1051.5	1028.9	1009.0	996.1	986.4	974.8	971.6	960.0
22.5°	1121.0	1075.9	1039.2	1010.9	985.8	962.6	948.4	942.6	935.6	924.0	924.0
25°	1072.1	1026.3	994.8	965.2	943.3	922.7	913.0	904.7	896.9	889.8	887.3
27.5°	1030.9	990.3	951.7	924.6	905.9	886.6	878.3	867.3	861.5	855.7	848.0
30°	987.1	945.2	912.4	886.6	866.0	849.3	840.3	833.2	828.0	822.9	819.0
32.5°	942.0	904.0	872.5	847.4	826.7	815.2	807.4	802.9	797.1	790.7	785.5
35°	903.4	860.9	830.0	808.1	792.0	782.3	773.3	768.8	762.4	762.4	757.2
37.5°	857.7	820.3	792.6	772.7	758.5	749.5	739.2	736.6	732.1	729.5	727.6
40°	817.7	783.6	757.9	737.9	722.4	715.4	707.6	702.5	699.9	696.7	695.4
42.5°	776.5	744.3	719.9	701.8	689.0	683.2	676.1	672.9	667.1	662.6	661.9
45°	734.7	703.1	680.6	665.8	654.2	647.1	642.6	634.9	632.3	627.1	626.5
47.5°	696.0	665.1	642.6	630.4	620.1	614.9	607.8	599.5	596.2	593.0	592.4
50°	651.6	623.9	603.3	591.7	582.1	573.7	566.6	561.5	559.5	559.5	560.8
52.5°	606.5	584.0	567.3	552.5	543.4	534.4	528.0	525.4	522.2	526.1	528.6
55°	562.8	538.9	526.1	512.5	503.5	493.2	490.0	488.7	486.8	491.9	494.5
57.5°	515.8	499.7	484.2	470.0	462.3	455.9	450.7	450.1	453.9	455.2	463.0
60°	471.3	452.0	438.5	428.2	418.5	414.7	413.4	412.1	414.7	421.7	432.7
62.5°	422.4	407.6	392.8	385.7	379.2	372.2	372.2	373.5	379.2	387.6	398.6
65°	374.7	361.2	351.6	342.5	336.8	332.9	334.2	336.8	342.5	353.5	365.7
67.5°	325.8	316.8	307.8	299.4	293.6	294.3	294.9	298.1	305.2	318.1	329.7
70°	278.8	268.5	261.4	258.2	253.7	251.1	255.0	261.4	267.2	278.8	288.5
72.5°	231.8	223.4	218.3	216.3	215.1	213.1	213.8	220.9	229.2	240.8	252.4
75°	185.4	182.2	178.4	175.8	173.8	175.1	176.4	182.9	189.3	201.5	214.4
77.5°	143.6	139.7	137.1	136.5	135.2	135.9	139.1	144.2	150.7	159.7	170.0
80°	102.4	101.1	99.8	99.2	99.2	99.8	105.0	108.2	114.0	122.3	130.1
82.5°	67.6	67.0	67.0	67.0	67.6	67.6	70.2	74.7	79.2	85.0	91.4
85°	39.3	38.0	39.9	40.6	39.3	41.2	42.5	45.1	47.0	50.2	53.4
87.5°	16.1	17.4	16.7	17.4	17.4	18.7	18.0	20.6	21.9	23.2	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P242818

CATALOG NUMBER: S125DRP-S1090D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1517.0	1517.0	1517.0	1517.0
2.5°	1427.5	1432.0	1428.1	1433.3
5°	1332.2	1326.4	1330.3	1327.7
7.5°	1244.0	1238.8	1231.1	1228.5
10°	1162.2	1155.1	1154.5	1150.0
12.5°	1102.3	1095.9	1086.9	1085.6
15°	1046.3	1041.2	1036.7	1040.5
17.5°	998.7	994.2	992.9	989.0
20°	954.2	951.0	952.3	943.9
22.5°	918.8	911.7	910.5	910.5
25°	881.5	878.3	875.0	878.3
27.5°	848.6	845.4	844.1	844.8
30°	819.0	812.6	813.2	812.6
32.5°	786.8	783.0	781.7	780.4
35°	755.3	755.3	752.1	752.1
37.5°	726.3	725.7	723.7	725.0
40°	692.8	692.2	690.2	686.4
42.5°	660.6	658.0	657.4	656.8
45°	626.5	626.5	625.2	624.6
47.5°	593.0	594.3	596.9	596.2
50°	563.4	564.0	566.0	566.6
52.5°	530.6	535.1	537.6	537.0
55°	500.3	504.8	509.3	510.0
57.5°	470.0	475.8	480.3	481.6
60°	439.1	447.5	453.3	455.9
62.5°	409.5	419.2	425.0	425.0
65°	376.7	386.3	391.5	395.3
67.5°	342.5	352.2	357.4	360.6
70°	304.6	314.2	321.9	324.5
72.5°	267.2	275.6	281.4	284.6
75°	222.8	234.4	240.2	243.4
77.5°	180.3	191.9	195.1	197.0
80°	137.8	144.2	148.7	149.4
82.5°	97.9	103.0	103.7	105.6
85°	57.9	60.5	61.2	60.5
87.5°	23.8	23.2	23.2	24.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242818
 CATALOG NUMBER: S125DRP-S1090D840-X4F0-XX-UDD-A-W

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.92	20.49	19.28	20.80	21.11	18.89	20.46	19.26	20.77	21.09
	3H	20.29	21.70	20.67	22.03	22.39	20.32	21.73	20.70	22.06	22.42
	4H	20.78	22.11	21.18	22.45	22.83	20.81	22.13	21.21	22.48	22.86
	6H	21.12	22.34	21.53	22.71	23.10	21.12	22.35	21.53	22.71	23.10
	8H	21.21	22.38	21.63	22.77	23.17	21.20	22.37	21.63	22.76	23.16
	12H	21.26	22.38	21.69	22.76	23.19	21.24	22.36	21.67	22.74	23.17
4H	2H	20.42	21.75	20.82	22.10	22.47	19.97	21.29	20.37	21.64	22.02
	3H	21.77	22.87	22.18	23.27	23.67	21.63	22.73	22.04	23.13	23.53
	4H	22.28	23.27	22.71	23.69	24.12	22.19	23.18	22.62	23.60	24.03
	6H	22.65	23.52	23.11	23.96	24.42	22.56	23.43	23.02	23.87	24.33
	8H	22.75	23.56	23.21	24.01	24.47	22.66	23.47	23.12	23.91	24.38
	12H	22.82	23.54	23.30	24.02	24.49	22.71	23.44	23.19	23.91	24.38
8H	4H	22.76	23.57	23.22	24.01	24.48	22.53	23.34	22.99	23.78	24.25
	6H	23.21	23.88	23.71	24.37	24.85	23.03	23.70	23.52	24.19	24.67
	8H	23.36	23.96	23.87	24.47	24.95	23.18	23.78	23.69	24.29	24.77
	12H	23.46	23.99	23.97	24.48	25.05	23.27	23.81	23.78	24.30	24.86
12H	4H	22.81	23.53	23.29	24.01	24.48	22.54	23.27	23.03	23.75	24.22
	6H	23.29	23.90	23.81	24.41	24.89	23.08	23.68	23.59	24.19	24.67
	8H	23.49	24.02	23.99	24.51	25.07	23.28	23.81	23.79	24.31	24.87