

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: P242834

Luminaire Tested: S125DRP-S1270D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242834
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-S1270D940-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

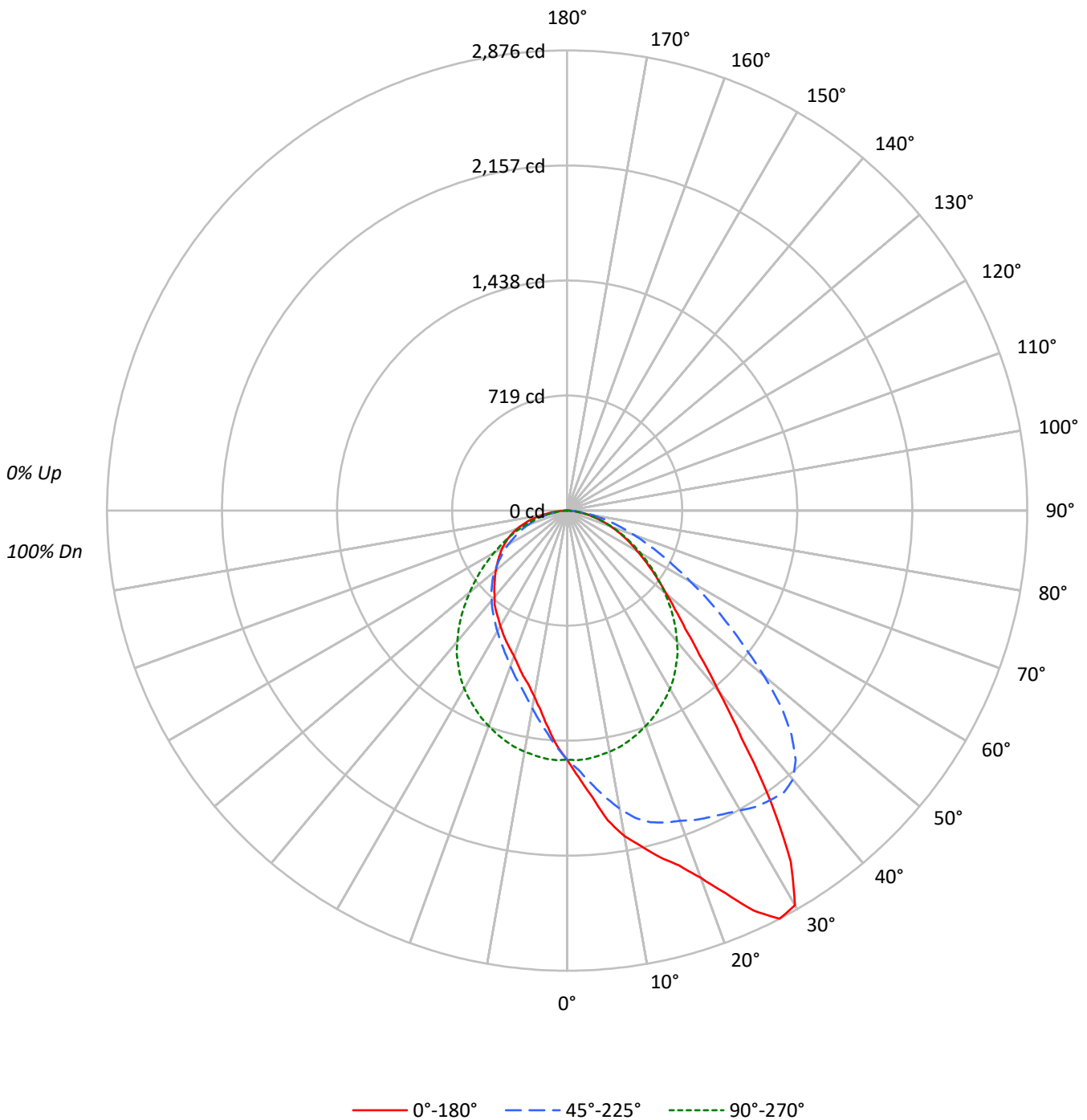
Lumens per Lamp: N/A
Luminaire Lumens: 4393.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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°	11065	11065	11065	11065	11065
5°	12813	12205	11102	9985	9721
10°	14907	13648	11044	9046	8517
15°	16501	14834	10964	8314	7857
20°	18472	15603	10835	7831	7327
25°	21639	16577	10690	7426	7068
30°	23372	17754	10547	7152	6844
35°	19218	19177	10279	6965	6696
40°	13659	20365	9907	6811	6535
45°	10494	19931	9404	6675	6442
50°	8957	17732	8782	6509	6430
55°	7975	15057	8171	6271	6484
60°	7194	12718	7504	6048	6650
65°	6645	10834	6835	5745	6823
70°	6041	9214	6139	5355	6920
75°	5336	7876	5407	4935	6860
80°	4490	6463	4408	4191	6275
85°	3555	4689	3180	3449	5064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19931 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.4
10°-20°	446.3	10.2
20°-30°	724.9	16.5
30°-40°	885.9	20.2
40°-50°	803.7	18.3
50°-60°	640.2	14.6
60°-70°	445.9	10.1
70°-80°	237.5	5.4
80°-90°	58.9	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°	1321.0	30.1
0°-40°	2207.0	50.2
0°-60°	3650.9	83.1
0°-90°	4393.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4393.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1557	1557	1557	1557	1557	
5°	1796	1711	1556	1400	1362	180
15°	2243	2016	1490	1130	1068	641
25°	2759	2114	1363	947	901	1264
35°	2215	2210	1185	803	772	1359
45°	1044	1983	936	664	641	831
55°	644	1215	659	506	523	579
65°	395	644	406	342	406	392
75°	194	287	197	180	250	209
85°	44	58	39	42	62	51
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°	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1669.1	1666.4	1663.8	1658.5	1662.5	1651.2	1646.0	1636.7	1625.5	1621.5	1616.9
5°	1795.9	1799.3	1802.6	1788.7	1790.0	1780.8	1759.6	1742.4	1728.6	1710.7	1698.2
7.5°	1953.2	1943.3	1944.0	1935.4	1920.2	1907.6	1887.1	1858.7	1833.0	1803.9	1778.8
10°	2065.5	2066.2	2060.3	2049.7	2033.2	2021.3	1992.2	1964.4	1930.7	1891.1	1862.7
12.5°	2150.1	2153.4	2145.5	2130.3	2124.3	2094.0	2072.8	2038.4	1996.8	1967.1	1920.2
15°	2242.6	2235.4	2230.1	2212.2	2198.4	2170.6	2134.3	2099.9	2056.3	2016.0	1975.7
17.5°	2324.6	2330.5	2321.9	2308.7	2267.7	2235.4	2190.4	2146.8	2094.6	2044.4	1997.5
20°	2442.2	2447.5	2432.3	2403.8	2352.3	2319.9	2255.8	2195.0	2132.3	2062.9	2010.0
22.5°	2588.9	2582.3	2560.4	2513.5	2470.6	2403.8	2333.1	2255.8	2173.2	2092.6	2018.0
25°	2759.3	2731.6	2719.0	2665.5	2606.7	2518.8	2423.7	2315.3	2217.5	2113.8	2023.9
27.5°	2875.6	2864.4	2846.6	2802.9	2735.6	2635.8	2523.4	2393.9	2262.4	2135.6	2022.6
30°	2847.9	2849.2	2850.5	2838.6	2799.0	2728.3	2616.6	2474.6	2310.7	2163.3	2027.2
32.5°	2602.1	2631.8	2660.2	2697.2	2721.0	2721.7	2662.2	2537.3	2367.5	2195.0	2024.6
35°	2214.9	2222.1	2296.8	2370.8	2471.2	2549.2	2601.4	2544.6	2402.5	2210.2	2022.6
37.5°	1790.7	1827.0	1883.2	1966.4	2117.1	2240.0	2401.2	2456.7	2390.0	2222.8	2021.9
40°	1472.2	1505.2	1538.9	1624.2	1746.4	1903.7	2093.3	2255.2	2292.8	2195.0	2002.1
42.5°	1226.4	1250.8	1289.1	1348.0	1445.1	1579.9	1758.9	1982.9	2136.2	2114.4	1960.5
45°	1044.0	1060.5	1089.6	1140.5	1214.5	1323.5	1483.4	1714.7	1916.2	1982.9	1889.8
47.5°	914.5	915.2	938.9	975.3	1031.4	1131.9	1251.5	1441.8	1659.2	1813.1	1791.3
50°	810.1	806.8	824.6	855.0	897.3	958.8	1071.8	1216.5	1423.3	1603.7	1653.9
52.5°	720.2	721.6	730.8	751.3	785.0	835.2	912.5	1039.4	1208.5	1394.9	1500.6
55°	643.6	640.9	653.5	668.7	694.5	728.8	789.6	889.4	1032.8	1215.1	1338.0
57.5°	569.6	576.8	582.1	592.7	615.2	639.0	693.1	769.8	888.1	1049.9	1180.1
60°	506.1	513.4	517.4	527.9	545.1	565.0	604.6	664.1	759.9	894.7	1023.5
62.5°	449.3	454.6	455.3	464.5	477.7	496.9	526.0	573.5	644.2	757.9	883.4
65°	395.1	395.1	397.8	407.7	414.3	431.5	455.3	491.6	552.4	644.2	751.9
67.5°	342.3	345.6	344.9	349.5	355.5	370.0	387.9	418.3	466.5	535.9	625.1
70°	290.7	293.4	292.7	296.0	302.6	311.2	325.1	353.5	385.9	443.4	517.4
72.5°	244.5	245.1	243.2	247.8	251.1	258.4	274.2	286.1	315.8	362.1	419.6
75°	194.3	195.6	196.9	199.5	203.5	207.5	215.4	230.6	250.4	286.8	325.8
77.5°	154.6	151.3	155.3	154.6	156.6	159.9	167.2	175.8	192.9	217.4	249.8
80°	109.7	110.3	110.3	111.0	114.3	116.3	122.2	128.2	140.7	157.9	179.1
82.5°	72.7	74.7	73.3	74.7	77.3	78.6	81.3	85.9	91.8	104.4	118.3
85°	43.6	40.3	41.6	42.9	42.9	43.6	46.3	48.2	52.2	57.5	63.4
87.5°	15.9	17.2	17.8	17.8	18.5	18.5	21.1	21.1	23.1	25.1	27.8
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°	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1612.9	1608.3	1603.0	1593.8	1582.5	1576.6	1567.3	1561.4	1549.5	1539.6	1529.0
5°	1683.0	1665.8	1649.9	1629.4	1607.0	1592.4	1575.3	1556.1	1536.3	1515.8	1493.3
7.5°	1753.0	1724.6	1693.5	1661.2	1629.4	1599.7	1572.0	1543.5	1517.8	1485.4	1458.3
10°	1823.7	1785.4	1744.4	1696.2	1649.3	1608.3	1566.7	1530.3	1493.3	1453.7	1418.7
12.5°	1894.4	1840.2	1778.1	1723.9	1665.1	1613.6	1562.7	1513.8	1464.9	1420.0	1377.7
15°	1920.2	1875.2	1821.7	1746.4	1683.0	1614.9	1550.1	1490.0	1433.9	1385.0	1333.4
17.5°	1945.3	1887.8	1831.0	1758.3	1675.7	1602.3	1529.0	1463.6	1401.5	1340.0	1293.1
20°	1951.2	1891.8	1831.6	1760.9	1675.7	1588.5	1515.1	1432.5	1364.5	1300.4	1239.6
22.5°	1949.2	1879.9	1813.1	1739.8	1657.2	1578.6	1486.1	1401.5	1326.1	1263.4	1199.3
25°	1934.7	1862.7	1780.8	1707.4	1625.5	1540.2	1450.4	1363.2	1287.8	1215.8	1153.0
27.5°	1926.1	1834.9	1745.1	1660.5	1581.9	1503.2	1416.0	1326.1	1243.6	1170.2	1112.1
30°	1907.0	1804.5	1700.1	1610.9	1529.7	1453.7	1372.4	1285.2	1198.0	1126.6	1063.2
32.5°	1889.8	1766.2	1654.5	1555.4	1468.2	1394.9	1321.5	1239.6	1154.3	1081.7	1018.2
35°	1866.7	1728.6	1602.3	1492.7	1400.8	1324.8	1262.1	1184.7	1106.1	1036.1	975.3
37.5°	1839.6	1679.7	1546.2	1431.9	1332.1	1252.8	1193.3	1133.2	1054.6	985.9	931.7
40°	1806.5	1626.8	1483.4	1365.8	1261.4	1178.1	1124.0	1067.8	1005.0	942.2	884.1
42.5°	1764.9	1579.2	1420.0	1291.1	1188.0	1107.4	1049.9	1004.4	950.8	893.3	840.5
45°	1712.0	1519.8	1350.6	1214.5	1110.1	1030.1	971.3	935.6	894.0	838.5	792.9
47.5°	1642.0	1452.4	1277.9	1137.2	1029.5	955.5	899.3	864.3	833.9	790.3	747.3
50°	1542.2	1375.0	1198.0	1058.5	950.8	876.2	825.3	794.2	769.1	737.4	702.4
52.5°	1430.5	1277.9	1119.3	981.9	875.5	802.2	752.6	726.2	706.4	685.9	651.5
55°	1311.0	1178.8	1028.1	897.3	798.9	726.8	683.2	659.4	642.3	625.1	603.9
57.5°	1182.1	1075.1	937.0	814.7	723.5	656.1	615.2	590.7	576.8	567.6	554.4
60°	1044.7	956.1	841.1	732.1	643.6	585.4	545.8	527.9	516.7	509.4	500.2
62.5°	917.1	848.4	744.0	646.9	572.2	518.0	483.7	466.5	455.9	453.3	446.0
65°	792.3	736.1	648.2	565.6	499.5	452.6	422.9	406.4	399.8	395.8	396.5
67.5°	666.7	630.4	557.0	484.3	430.2	388.5	364.1	351.5	348.2	342.3	342.3
70°	553.7	527.9	468.5	407.0	360.1	329.7	308.6	295.4	292.1	289.4	288.8
72.5°	453.9	432.1	382.6	336.3	295.4	269.6	253.1	246.5	240.5	239.2	239.2
75°	356.2	343.6	302.6	263.6	234.6	216.1	204.2	196.9	192.9	192.3	192.9
77.5°	268.9	257.0	228.6	199.5	180.4	165.9	154.6	152.6	147.3	148.0	146.7
80°	190.3	183.0	166.5	144.7	129.5	117.6	112.3	107.7	106.4	104.4	106.4
82.5°	124.9	117.0	107.0	95.1	83.3	77.3	72.0	71.4	70.7	70.0	70.0
85°	68.1	68.7	62.1	51.5	46.3	42.3	39.0	39.0	38.3	37.7	38.3
87.5°	29.1	27.8	25.1	23.1	19.8	17.8	17.2	17.8	15.9	15.2	15.9
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°	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1523.1	1515.8	1509.8	1496.6	1489.4	1479.4	1471.5	1480.1	1470.9	1474.8	1468.9
5°	1482.1	1463.6	1450.4	1431.2	1414.7	1399.5	1388.3	1386.3	1381.0	1378.3	1370.4
7.5°	1433.2	1412.0	1390.2	1366.5	1346.6	1325.5	1312.9	1301.0	1293.8	1284.5	1277.3
10°	1390.9	1359.8	1333.4	1303.0	1276.6	1253.5	1235.0	1225.7	1217.1	1204.6	1199.9
12.5°	1338.7	1306.3	1272.6	1239.6	1214.5	1188.0	1172.9	1157.7	1152.4	1137.8	1137.2
15°	1299.1	1250.8	1219.1	1186.1	1151.0	1129.9	1116.7	1101.5	1094.9	1085.0	1077.7
17.5°	1250.2	1206.6	1166.9	1133.2	1101.5	1084.3	1067.1	1056.6	1045.3	1038.1	1026.2
20°	1196.0	1155.0	1115.4	1079.0	1055.9	1035.4	1022.2	1012.3	1000.4	997.1	985.2
22.5°	1150.4	1104.1	1066.5	1037.4	1011.6	987.8	973.3	967.4	960.1	948.2	948.2
25°	1100.2	1053.3	1020.9	990.5	968.0	946.9	937.0	928.4	920.4	913.2	910.5
27.5°	1057.9	1016.3	976.6	948.9	929.7	909.9	901.3	890.0	884.1	878.2	870.2
30°	1012.9	970.0	936.3	909.9	888.7	871.5	862.3	855.0	849.7	844.5	840.5
32.5°	966.7	927.7	895.3	869.6	848.4	836.5	828.6	824.0	818.0	811.4	806.1
35°	927.0	883.4	851.7	829.3	812.7	802.8	793.6	788.9	782.3	782.3	777.1
37.5°	880.1	841.8	813.4	792.9	778.4	769.1	758.6	755.9	751.3	748.6	746.7
40°	839.2	804.1	777.7	757.2	741.4	734.1	726.2	720.9	718.2	714.9	713.6
42.5°	796.9	763.8	738.7	720.2	707.0	701.1	693.8	690.5	684.5	679.9	679.3
45°	753.9	721.6	698.4	683.2	671.3	664.1	659.4	651.5	648.9	643.6	642.9
47.5°	714.3	682.6	659.4	646.9	636.3	631.0	623.8	615.2	611.9	608.6	607.9
50°	668.7	640.3	619.1	607.2	597.3	588.7	581.5	576.2	574.2	574.2	575.5
52.5°	622.4	599.3	582.1	566.9	557.7	548.4	541.8	539.2	535.9	539.8	542.5
55°	577.5	553.1	539.8	526.0	516.7	506.1	502.8	501.5	499.5	504.8	507.5
57.5°	529.3	512.8	496.9	482.4	474.4	467.8	462.5	461.9	465.8	467.2	475.1
60°	483.7	463.9	450.0	439.4	429.5	425.5	424.2	422.9	425.5	432.8	444.0
62.5°	433.5	418.3	403.1	395.8	389.2	381.9	381.9	383.2	389.2	397.8	409.0
65°	384.6	370.7	360.8	351.5	345.6	341.6	342.9	345.6	351.5	362.8	375.3
67.5°	334.3	325.1	315.8	307.3	301.3	302.0	302.6	305.9	313.2	326.4	338.3
70°	286.1	275.5	268.3	265.0	260.3	257.7	261.7	268.3	274.2	286.1	296.0
72.5°	237.9	229.3	224.0	222.0	220.7	218.7	219.4	226.6	235.2	247.1	259.0
75°	190.3	187.0	183.0	180.4	178.4	179.7	181.0	187.7	194.3	206.8	220.0
77.5°	147.3	143.4	140.7	140.1	138.8	139.4	142.7	148.0	154.6	163.9	174.4
80°	105.1	103.7	102.4	101.8	101.8	102.4	107.7	111.0	117.0	125.5	133.5
82.5°	69.4	68.7	68.7	68.7	69.4	69.4	72.0	76.6	81.3	87.2	93.8
85°	40.3	39.0	41.0	41.6	40.3	42.3	43.6	46.3	48.2	51.5	54.8
87.5°	16.5	17.8	17.2	17.8	17.8	19.2	18.5	21.1	22.5	23.8	23.1
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: P242834

CATALOG NUMBER: S125DRP-S1270D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1556.8	1556.8	1556.8	1556.8
2.5°	1464.9	1469.5	1465.6	1470.9
5°	1367.1	1361.2	1365.1	1362.5
7.5°	1276.6	1271.3	1263.4	1260.7
10°	1192.7	1185.4	1184.7	1180.1
12.5°	1131.2	1124.6	1115.4	1114.0
15°	1073.7	1068.5	1063.8	1067.8
17.5°	1024.8	1020.2	1018.9	1014.9
20°	979.2	975.9	977.3	968.7
22.5°	942.9	935.6	934.3	934.3
25°	904.6	901.3	898.0	901.3
27.5°	870.9	867.6	866.3	866.9
30°	840.5	833.9	834.5	833.9
32.5°	807.5	803.5	802.2	800.8
35°	775.1	775.1	771.8	771.8
37.5°	745.3	744.7	742.7	744.0
40°	711.0	710.3	708.3	704.4
42.5°	677.9	675.3	674.6	674.0
45°	642.9	642.9	641.6	640.9
47.5°	608.6	609.9	612.5	611.9
50°	578.2	578.8	580.8	581.5
52.5°	544.5	549.1	551.7	551.1
55°	513.4	518.0	522.7	523.3
57.5°	482.4	488.3	492.9	494.2
60°	450.6	459.2	465.2	467.8
62.5°	420.2	430.2	436.1	436.1
65°	386.5	396.5	401.7	405.7
67.5°	351.5	361.4	366.7	370.0
70°	312.5	322.5	330.4	333.0
72.5°	274.2	282.8	288.8	292.1
75°	228.6	240.5	246.5	249.8
77.5°	185.0	196.9	200.2	202.2
80°	141.4	148.0	152.6	153.3
82.5°	100.4	105.7	106.4	108.4
85°	59.5	62.1	62.8	62.1
87.5°	24.4	23.8	23.8	25.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242834
 CATALOG NUMBER: S125DRP-S1270D940-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	19.01	20.58	19.37	20.89	21.20	18.98	20.55	19.35	20.86	21.18
	3H	20.38	21.79	20.76	22.12	22.48	20.41	21.82	20.79	22.15	22.51
	4H	20.87	22.20	21.27	22.54	22.92	20.90	22.22	21.30	22.57	22.95
	6H	21.21	22.43	21.62	22.80	23.19	21.21	22.44	21.62	22.80	23.19
	8H	21.30	22.47	21.72	22.86	23.26	21.29	22.46	21.72	22.85	23.25
	12H	21.35	22.47	21.78	22.85	23.28	21.33	22.45	21.76	22.83	23.26
4H	2H	20.51	21.84	20.91	22.19	22.56	20.06	21.38	20.46	21.73	22.11
	3H	21.86	22.96	22.27	23.36	23.76	21.72	22.82	22.13	23.22	23.62
	4H	22.37	23.36	22.80	23.78	24.21	22.28	23.27	22.71	23.68	24.12
	6H	22.74	23.61	23.20	24.05	24.51	22.65	23.52	23.11	23.96	24.42
	8H	22.84	23.65	23.30	24.10	24.56	22.75	23.56	23.21	24.00	24.47
	12H	22.91	23.63	23.39	24.11	24.58	22.80	23.53	23.28	24.00	24.47
8H	4H	22.85	23.66	23.31	24.10	24.57	22.62	23.43	23.08	23.87	24.34
	6H	23.30	23.97	23.80	24.46	24.94	23.12	23.79	23.61	24.28	24.76
	8H	23.44	24.05	23.96	24.56	25.04	23.27	23.87	23.78	24.38	24.86
	12H	23.55	24.08	24.06	24.57	25.14	23.36	23.90	23.87	24.39	24.95
12H	4H	22.90	23.62	23.38	24.10	24.57	22.63	23.36	23.12	23.84	24.31
	6H	23.38	23.99	23.90	24.49	24.98	23.17	23.77	23.68	24.28	24.76
	8H	23.58	24.11	24.08	24.60	25.16	23.37	23.90	23.88	24.40	24.96