

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: P243780

Luminaire Tested: S125RDRP-H850D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H850D840-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

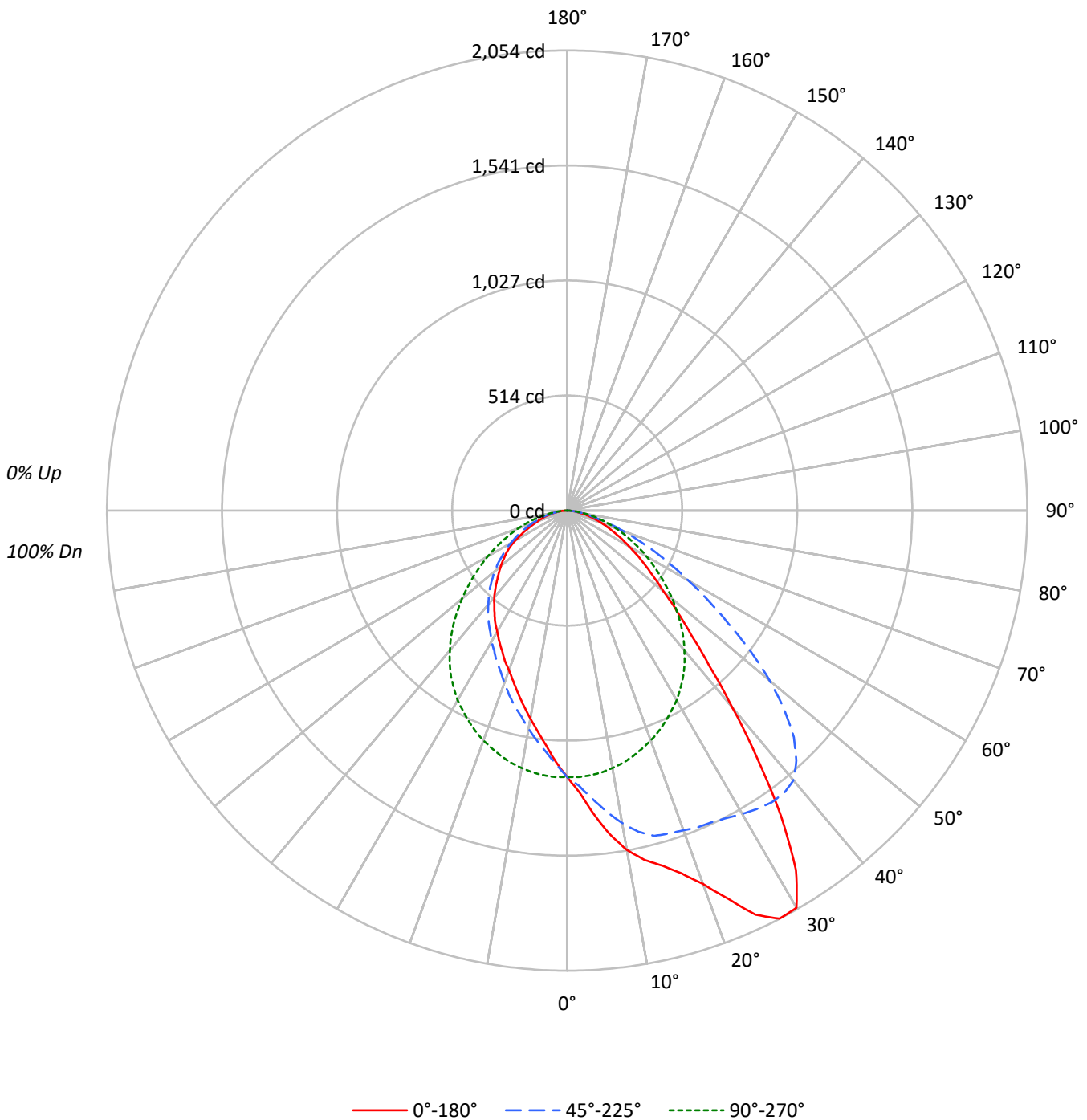
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3164.2 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.6  
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88				86	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65				63	
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56				54	
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50				48	
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44				42	
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39				37	
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35				33	
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32				30	
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29				27	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	8450	8450	8450	8450	8450
5°	9700	9216	8462	7716	7528
10°	11098	10224	8421	7141	6805
15°	12072	11062	8353	6649	6223
20°	13414	11485	8258	6190	5734
25°	15609	12030	8141	5834	5398
30°	16807	12826	8021	5532	5123
35°	14439	13796	7841	5293	4900
40°	10637	14578	7558	5078	4697
45°	7856	14381	7207	4890	4454
50°	6224	13053	6777	4686	4275
55°	5258	10894	6280	4399	4113
60°	4530	8900	5817	4128	3807
65°	3932	7183	5296	3789	3315
70°	3447	5457	4850	3429	2899
75°	2925	3974	4245	3029	2743
80°	2276	2873	3549	2665	2276
85°	1998	2112	2846	2267	2079

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 14381 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	3.6
10°-20°	338.6	10.7
20°-30°	540.0	17.1
30°-40°	655.7	20.7
40°-50°	590.8	18.7
50°-60°	454.3	14.4
60°-70°	294.8	9.3
70°-80°	141.9	4.5
80°-90°	33.6	1.1
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°	993.0	31.4
0°-40°	1648.7	52.1
0°-60°	2693.9	85.1
0°-90°	3164.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1189	1189	1189	1189	1189	
5°	1360	1292	1186	1082	1055	135
15°	1641	1503	1135	904	846	470
25°	1990	1534	1038	744	688	910
35°	1664	1590	904	610	565	1018
45°	782	1431	717	486	443	621
55°	424	879	507	355	332	385
65°	234	427	315	225	197	234
75°	106	145	155	110	100	115
85°	24	26	35	28	26	28
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°	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9
2.5°	1257.8	1262.5	1258.7	1261.1	1257.3	1255.4	1250.7	1243.6	1236.6	1230.0	1229.5
5°	1359.6	1358.7	1354.9	1349.7	1345.9	1336.5	1331.8	1315.8	1304.9	1291.7	1285.1
7.5°	1456.7	1454.4	1448.7	1441.6	1438.3	1426.1	1412.9	1392.6	1375.6	1354.9	1339.3
10°	1537.8	1537.3	1533.1	1528.4	1515.6	1502.0	1489.2	1468.0	1442.6	1416.6	1395.0
12.5°	1597.2	1594.8	1589.7	1581.6	1571.3	1561.8	1544.9	1525.5	1494.4	1468.0	1438.3
15°	1640.6	1639.6	1632.1	1629.3	1609.0	1595.8	1573.2	1553.8	1529.8	1503.4	1471.3
17.5°	1698.1	1700.0	1693.4	1677.3	1659.0	1638.7	1606.6	1575.0	1541.6	1510.9	1485.0
20°	1773.5	1768.8	1757.5	1738.2	1705.2	1680.2	1648.1	1609.0	1563.7	1518.5	1481.2
22.5°	1874.4	1869.2	1851.3	1827.7	1786.2	1740.5	1691.5	1633.0	1581.2	1529.3	1480.3
25°	1990.4	1980.5	1954.1	1928.6	1869.7	1821.1	1748.1	1678.3	1602.9	1534.0	1478.9
27.5°	2053.5	2053.5	2041.3	2013.5	1966.8	1895.1	1820.7	1727.8	1640.6	1546.3	1468.0
30°	2047.9	2044.6	2049.3	2037.5	2007.3	1953.6	1879.6	1782.0	1670.7	1562.8	1469.0
32.5°	1901.7	1903.2	1931.4	1950.8	1965.9	1952.7	1904.6	1816.4	1705.6	1578.8	1465.2
35°	1664.1	1667.9	1717.9	1750.9	1818.3	1857.0	1868.3	1820.7	1721.2	1590.1	1458.6
37.5°	1392.6	1392.6	1450.6	1500.6	1576.0	1671.2	1742.4	1760.3	1711.8	1589.7	1452.9
40°	1146.5	1145.1	1190.8	1252.1	1332.7	1437.9	1543.9	1634.9	1646.7	1571.3	1433.1
42.5°	938.1	935.8	985.8	1019.7	1104.6	1198.4	1339.3	1468.0	1541.6	1514.2	1403.9
45°	781.6	779.7	812.3	850.9	910.8	1008.4	1126.7	1269.6	1393.1	1430.8	1349.2
47.5°	663.8	664.7	682.2	714.7	765.6	835.4	941.4	1073.9	1226.7	1313.9	1280.4
50°	562.9	566.2	579.4	603.9	641.1	697.2	788.2	908.0	1065.0	1180.5	1187.5
52.5°	487.5	492.2	506.3	519.5	550.6	590.2	660.9	764.7	894.3	1032.9	1082.4
55°	424.3	426.6	434.7	448.8	471.9	504.9	556.3	635.5	755.7	879.2	966.4
57.5°	371.5	371.5	376.7	386.6	405.0	434.7	469.1	534.6	636.0	747.7	840.6
60°	318.7	320.6	324.3	335.2	347.4	370.1	403.5	445.0	532.7	626.1	726.0
62.5°	274.4	277.7	281.4	286.6	297.9	314.0	337.5	375.7	434.7	520.9	610.0
65°	233.8	237.1	237.6	243.7	251.3	264.5	282.4	310.2	359.2	427.1	500.7
67.5°	198.0	199.4	200.8	205.5	212.6	221.1	232.9	253.6	292.3	338.0	409.7
70°	165.9	166.9	167.4	172.5	175.8	183.4	189.5	202.7	227.2	262.6	318.2
72.5°	135.8	134.4	133.9	138.1	139.5	145.7	153.2	162.6	175.8	200.8	242.3
75°	106.5	107.0	107.5	109.8	110.3	113.1	117.9	124.0	130.1	144.7	171.1
77.5°	82.0	80.1	80.1	83.0	83.9	84.4	87.7	91.0	94.3	102.8	113.1
80°	55.6	56.6	56.6	56.6	57.0	58.0	59.9	62.7	65.1	70.2	72.1
82.5°	39.6	39.6	39.1	40.1	40.5	41.0	41.0	41.0	42.4	43.8	45.7
85°	24.5	25.0	23.6	24.5	25.0	25.0	25.0	25.0	26.4	25.9	26.4
87.5°	10.4	10.8	10.8	11.3	11.3	11.8	11.3	11.8	11.3	11.3	11.8
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°	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9
2.5°	1228.1	1222.4	1219.6	1213.9	1206.4	1201.7	1197.0	1190.4	1185.2	1177.2	1170.1
5°	1273.3	1262.0	1251.6	1237.5	1223.8	1212.0	1199.8	1186.1	1173.9	1160.2	1145.6
7.5°	1323.8	1305.9	1284.2	1259.2	1238.0	1219.6	1198.8	1178.6	1160.2	1138.5	1118.7
10°	1372.3	1343.6	1314.8	1281.3	1250.2	1222.9	1195.1	1166.8	1142.7	1115.9	1091.4
12.5°	1410.0	1382.7	1339.8	1298.3	1257.8	1222.4	1187.5	1153.1	1121.5	1091.8	1062.6
15°	1443.0	1397.8	1361.5	1316.2	1266.7	1218.6	1175.3	1135.2	1097.0	1062.1	1032.4
17.5°	1452.5	1411.9	1372.3	1319.5	1266.3	1211.6	1161.6	1114.0	1071.6	1032.9	999.4
20°	1451.5	1410.5	1367.6	1317.2	1260.6	1200.7	1145.1	1091.8	1043.7	999.4	963.6
22.5°	1437.4	1397.8	1354.4	1303.5	1246.0	1184.2	1125.8	1066.8	1014.5	968.3	931.5
25°	1422.3	1372.3	1327.1	1275.7	1221.0	1164.0	1101.7	1038.1	983.4	935.3	893.8
27.5°	1409.1	1349.2	1293.6	1243.2	1187.1	1135.7	1073.9	1007.4	951.3	900.9	858.0
30°	1387.9	1324.7	1257.3	1202.1	1147.9	1094.2	1037.6	977.3	916.0	864.6	821.7
32.5°	1369.5	1289.8	1216.8	1154.5	1100.3	1053.2	999.0	941.0	881.1	832.1	785.9
35°	1349.2	1254.0	1177.6	1104.6	1050.3	999.0	956.1	903.7	844.3	792.5	751.0
37.5°	1325.2	1217.2	1129.5	1055.1	999.0	946.2	907.5	860.8	807.1	755.7	714.7
40°	1298.3	1179.5	1078.6	1001.8	941.4	888.6	856.1	814.6	768.9	718.0	679.8
42.5°	1264.4	1139.4	1032.4	948.5	881.6	834.0	801.4	767.0	725.1	680.7	639.3
45°	1221.5	1089.5	977.3	888.6	822.6	776.4	742.5	717.0	683.6	642.1	603.0
47.5°	1169.1	1037.1	920.7	828.8	765.1	720.8	689.2	663.8	638.3	602.5	565.2
50°	1099.8	977.3	865.5	771.7	704.3	661.4	633.1	612.9	589.8	560.5	526.6
52.5°	1023.5	909.9	800.5	712.8	647.7	604.8	575.6	558.6	541.2	517.2	487.9
55°	934.8	842.4	738.3	652.5	588.8	546.4	523.3	506.8	492.2	473.8	449.3
57.5°	841.0	759.9	669.4	590.2	530.4	490.3	470.0	456.3	444.1	430.9	410.6
60°	742.5	685.0	599.2	526.6	474.3	441.3	421.9	409.2	397.9	387.0	372.0
62.5°	639.7	592.1	528.0	466.2	419.6	388.5	374.3	363.5	351.7	342.3	331.4
65°	535.5	508.2	463.9	405.9	363.0	337.5	323.9	314.9	309.3	298.4	289.9
67.5°	440.8	425.7	388.0	348.9	315.9	292.8	280.0	273.4	267.3	262.1	252.7
70°	350.7	339.9	318.2	290.4	264.5	244.7	235.2	233.4	224.9	219.7	215.0
72.5°	267.3	264.5	246.6	234.3	219.7	204.1	197.1	193.3	187.6	182.9	181.0
75°	190.0	194.2	188.6	182.4	175.4	162.6	156.5	154.6	149.4	148.0	145.7
77.5°	129.6	135.8	137.7	134.8	131.5	127.3	123.0	121.2	116.0	115.0	113.6
80°	81.6	90.5	93.8	93.3	91.9	92.4	87.2	86.7	84.4	83.0	84.4
82.5°	49.5	54.2	60.3	61.8	59.9	60.8	59.4	57.5	57.5	58.5	56.6
85°	26.9	27.3	30.2	32.1	34.4	36.3	34.4	34.9	34.4	34.4	33.0
87.5°	11.8	12.3	12.3	11.8	12.7	13.7	15.6	16.5	16.0	14.6	12.7
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°	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9	1188.9
2.5°	1164.4	1161.1	1155.5	1150.8	1139.9	1132.4	1131.4	1131.9	1131.0	1130.0	1129.5
5°	1136.1	1125.3	1114.9	1106.0	1093.7	1081.5	1075.8	1073.4	1072.5	1067.3	1070.1
7.5°	1106.0	1089.5	1077.2	1060.2	1045.6	1035.3	1025.4	1020.6	1019.7	1012.6	1010.7
10°	1073.9	1054.1	1035.7	1018.8	1004.1	989.5	977.7	973.5	967.8	962.2	953.7
12.5°	1042.3	1017.8	997.5	978.7	958.9	942.4	933.0	926.8	919.8	914.6	911.7
15°	1004.6	983.9	958.9	938.6	918.3	903.7	891.0	879.7	873.1	868.8	857.1
17.5°	970.7	943.3	919.8	900.4	878.3	861.8	848.6	839.1	827.8	819.3	811.8
20°	934.4	906.1	884.4	861.3	838.7	818.4	801.9	794.4	786.3	778.3	774.1
22.5°	895.2	870.7	846.2	822.2	798.1	776.4	766.1	755.2	748.2	740.1	734.5
25°	861.3	834.4	809.9	783.0	756.6	743.9	729.8	718.9	713.3	705.3	699.1
27.5°	825.0	799.1	769.8	742.0	726.5	704.8	695.4	686.9	679.3	671.3	667.1
30°	791.1	760.9	731.7	710.0	689.7	674.1	665.2	654.8	644.4	640.7	635.0
32.5°	755.2	722.7	697.2	675.6	658.6	639.7	631.2	622.8	612.9	608.1	603.0
35°	718.0	686.4	661.4	641.6	624.2	610.0	600.6	591.6	585.5	578.4	574.7
37.5°	678.9	651.5	627.5	607.7	591.6	580.3	568.5	561.5	553.0	546.4	543.6
40°	641.6	617.1	594.0	575.6	561.0	547.3	537.0	528.0	522.8	517.2	512.4
42.5°	608.1	582.7	562.9	543.6	530.4	517.2	506.8	500.2	491.2	488.9	482.3
45°	572.3	548.7	528.9	511.0	497.4	486.5	474.3	466.2	460.6	454.9	452.6
47.5°	536.0	514.3	495.9	479.4	465.3	453.0	443.6	435.1	429.0	423.8	421.0
50°	500.7	481.8	463.4	447.4	432.8	423.8	412.5	403.1	398.4	392.7	389.4
52.5°	463.4	447.9	428.1	414.4	400.7	388.9	377.6	371.5	366.8	362.1	359.7
55°	428.5	412.0	395.1	380.4	367.2	355.0	346.0	341.3	335.2	332.4	331.9
57.5°	392.7	375.7	361.6	348.4	333.3	323.9	315.9	310.2	305.0	302.7	302.7
60°	353.6	339.9	326.7	312.1	301.2	290.4	281.9	278.1	273.0	272.0	268.7
62.5°	317.7	305.0	292.3	278.6	268.7	257.9	251.7	246.6	243.7	240.0	236.2
65°	280.5	269.2	256.9	245.1	237.1	225.3	219.7	213.6	210.3	206.0	201.3
67.5°	244.7	233.8	222.5	211.7	205.1	193.8	190.0	182.4	180.1	175.4	171.1
70°	207.0	199.4	190.5	179.6	174.0	165.0	161.2	154.2	150.4	147.6	145.2
72.5°	174.4	167.4	157.0	149.9	142.8	137.2	131.1	127.8	124.5	122.1	121.6
75°	142.4	133.4	127.3	120.7	116.0	110.3	107.5	105.1	103.7	102.3	100.9
77.5°	108.9	105.1	99.0	92.4	88.6	86.3	84.4	83.4	82.0	81.6	80.1
80°	81.1	75.9	72.1	69.8	66.9	65.1	63.6	60.3	58.5	57.5	56.6
82.5°	53.7	52.3	49.5	47.1	44.8	44.3	42.9	42.0	41.5	41.5	41.0
85°	32.5	28.8	28.8	28.3	28.3	27.8	26.9	26.9	25.9	27.3	27.3
87.5°	13.2	13.2	12.3	12.3	12.7	11.8	11.3	11.3	11.3	10.8	11.3
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: P243780

CATALOG NUMBER: S125RDRP-H850D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1188.9	1188.9	1188.9	1188.9
2.5°	1129.5	1127.2	1127.7	1124.8
5°	1065.0	1063.5	1058.8	1055.1
7.5°	1006.0	999.9	999.4	995.7
10°	950.9	945.2	942.4	942.9
12.5°	902.8	896.7	896.7	892.9
15°	851.4	845.3	846.2	845.7
17.5°	809.0	804.7	801.4	798.6
20°	767.5	762.3	760.4	758.1
22.5°	729.3	725.5	726.0	726.0
25°	693.0	693.5	689.2	688.3
27.5°	660.9	660.0	659.1	657.2
30°	630.8	627.0	626.1	624.2
32.5°	599.7	599.2	595.4	596.8
35°	568.1	566.7	565.7	564.8
37.5°	538.8	536.0	535.5	534.6
40°	509.1	508.2	504.0	506.3
42.5°	477.1	475.2	475.2	475.2
45°	450.2	445.0	445.0	443.1
47.5°	420.0	418.2	417.2	413.9
50°	390.3	387.5	386.6	386.6
52.5°	359.7	359.2	360.2	358.3
55°	332.8	333.3	332.8	331.9
57.5°	303.6	301.2	301.2	301.7
60°	268.7	268.7	269.7	267.8
62.5°	235.2	234.3	231.0	230.1
65°	200.8	197.1	196.6	197.1
67.5°	170.2	168.8	166.4	166.9
70°	143.8	143.3	141.0	139.5
72.5°	120.2	120.2	118.8	118.8
75°	100.4	99.5	99.0	99.9
77.5°	77.3	75.0	75.9	74.5
80°	56.1	57.0	56.1	55.6
82.5°	41.5	40.5	41.0	40.5
85°	26.4	25.5	25.9	25.5
87.5°	10.8	11.3	11.3	10.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243780  
 CATALOG NUMBER: S125RDRP-H850D840-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	17.34	18.88	17.70	19.19	19.51	18.03	19.57	18.40	19.89	20.20
	3H	18.42	19.80	18.80	20.13	20.49	19.51	20.89	19.89	21.22	21.58
	4H	18.78	20.07	19.18	20.42	20.80	20.04	21.33	20.43	21.68	22.06
	6H	19.00	20.19	19.41	20.56	20.95	20.39	21.59	20.80	21.95	22.35
	8H	19.05	20.19	19.48	20.58	20.98	20.49	21.63	20.92	22.02	22.42
	12H	19.09	20.18	19.52	20.56	20.99	20.55	21.64	20.98	22.02	22.45
4H	2H	18.86	20.15	19.26	20.50	20.88	18.91	20.20	19.31	20.55	20.93
	3H	19.90	20.98	20.31	21.38	21.78	20.57	21.64	20.98	22.04	22.44
	4H	20.26	21.23	20.70	21.65	22.08	21.17	22.13	21.60	22.55	22.99
	6H	20.51	21.35	20.97	21.79	22.25	21.60	22.44	22.06	22.88	23.34
	8H	20.57	21.36	21.03	21.80	22.27	21.72	22.51	22.19	22.95	23.42
	12H	20.62	21.32	21.10	21.80	22.27	21.81	22.51	22.29	22.99	23.46
8H	4H	20.63	21.41	21.09	21.85	22.32	21.32	22.10	21.78	22.55	23.02
	6H	20.92	21.57	21.41	22.06	22.53	21.84	22.49	22.34	22.98	23.46
	8H	21.01	21.59	21.53	22.10	22.59	22.02	22.60	22.53	23.11	23.60
	12H	21.10	21.61	21.61	22.10	22.67	22.16	22.67	22.67	23.16	23.73
12H	4H	20.65	21.35	21.13	21.83	22.30	21.31	22.01	21.79	22.49	22.96
	6H	20.95	21.53	21.46	22.04	22.53	21.83	22.42	22.35	22.93	23.41
	8H	21.08	21.60	21.59	22.09	22.65	22.05	22.57	22.56	23.06	23.62