

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: P243677

Luminaire Tested: S125DRP-H850D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H850D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

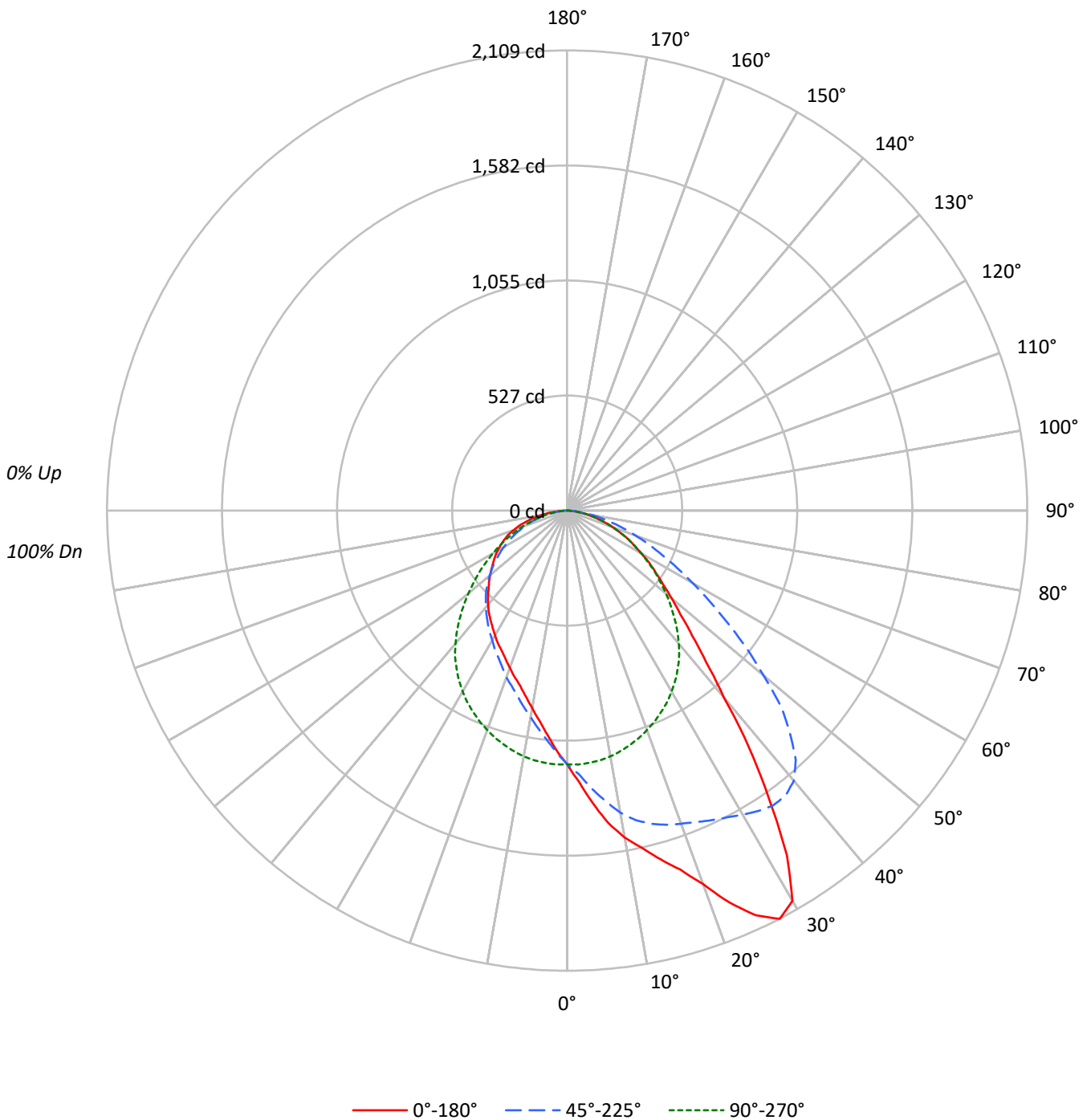
Lumens per Lamp: N/A
Luminaire Lumens: 3313.3 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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	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				
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63					61				
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55					53				
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					40				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34					32				
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8262	8262	8262	8262	8262
5°	9599	9115	8281	7534	7359
10°	10983	10149	8254	6937	6641
15°	12175	10933	8179	6469	6119
20°	13784	11549	8097	6154	5805
25°	16052	12278	7993	5838	5560
30°	16946	13205	7861	5641	5424
35°	14013	14304	7669	5497	5309
40°	10366	14994	7392	5380	5231
45°	8151	14528	6990	5274	5117
50°	6902	12974	6537	5129	5098
55°	6145	11116	6087	4965	5118
60°	5575	9421	5589	4765	5227
65°	5170	8056	5121	4519	5375
70°	4644	6887	4584	4223	5407
75°	3963	5824	4026	3858	5333
80°	3242	4707	3299	3356	4977
85°	2226	3303	2349	2650	4232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.4
10°-20°	335.6	10.1
20°-30°	545.6	16.5
30°-40°	663.8	20.0
40°-50°	607.4	18.3
50°-60°	486.1	14.7
60°-70°	338.5	10.2
70°-80°	179.9	5.4
80°-90°	44.2	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°	993.5	30.0
0°-40°	1657.2	50.0
0°-60°	2750.7	83.0
0°-90°	3313.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1162	1162	1162	1162	1162	
5°	1346	1278	1161	1056	1032	134
15°	1655	1486	1112	879	832	475
25°	2047	1566	1019	744	709	935
35°	1615	1649	884	634	612	1001
45°	811	1445	695	525	509	640
55°	496	897	491	401	413	447
65°	307	479	304	269	320	303
75°	144	212	147	140	194	156
85°	27	40	29	32	52	35
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°	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5
2.5°	1244.6	1239.4	1238.0	1238.4	1235.6	1233.3	1227.6	1220.1	1214.9	1208.3	1206.4
5°	1345.5	1332.7	1335.1	1331.3	1325.2	1317.2	1310.1	1298.8	1287.9	1277.6	1263.9
7.5°	1444.5	1442.1	1435.5	1434.6	1424.7	1411.0	1396.8	1381.3	1358.2	1342.2	1323.8
10°	1521.8	1526.5	1517.1	1517.5	1500.1	1486.4	1474.2	1453.9	1428.0	1406.3	1379.4
12.5°	1584.0	1585.9	1584.5	1578.3	1567.0	1543.9	1532.1	1510.9	1482.6	1452.9	1432.2
15°	1654.7	1649.5	1641.5	1634.0	1617.5	1601.0	1576.5	1551.5	1515.6	1485.9	1455.8
17.5°	1725.4	1724.5	1714.6	1698.5	1677.8	1656.1	1619.4	1587.3	1549.1	1510.0	1472.3
20°	1822.5	1817.3	1802.7	1784.3	1746.2	1715.5	1669.8	1625.9	1576.0	1527.0	1483.1
22.5°	1944.2	1927.2	1912.6	1884.3	1840.4	1787.2	1735.8	1672.1	1602.4	1544.9	1490.2
25°	2046.9	2039.4	2023.8	1992.2	1942.3	1878.2	1801.8	1729.7	1642.0	1565.6	1494.4
27.5°	2109.2	2105.9	2096.4	2066.7	2025.2	1961.6	1880.0	1788.1	1688.6	1585.4	1500.1
30°	2064.8	2065.3	2070.5	2067.2	2048.8	2007.8	1935.2	1842.8	1727.8	1609.0	1501.5
32.5°	1874.4	1887.1	1927.7	1947.0	1972.9	1981.4	1948.9	1872.0	1760.8	1632.5	1506.2
35°	1615.1	1646.2	1673.6	1730.1	1797.5	1852.7	1884.8	1859.8	1774.4	1648.6	1508.6
37.5°	1370.9	1368.6	1411.0	1472.3	1543.9	1637.7	1728.7	1778.7	1750.9	1645.3	1504.3
40°	1117.3	1139.0	1165.4	1219.6	1303.5	1419.0	1527.4	1634.4	1673.1	1616.1	1487.8
42.5°	943.8	953.7	980.1	1022.5	1082.9	1200.7	1307.7	1445.4	1544.4	1551.0	1451.5
45°	810.9	821.7	829.2	871.2	927.3	1006.5	1116.3	1254.9	1387.9	1445.4	1392.6
47.5°	704.3	710.4	726.9	752.4	789.2	859.4	947.1	1073.0	1217.7	1329.4	1311.5
50°	624.2	628.9	642.1	656.2	686.4	738.3	809.0	912.2	1051.3	1173.4	1213.5
52.5°	553.5	559.6	566.2	579.9	607.7	642.6	700.1	780.7	909.9	1034.8	1098.4
55°	495.9	498.3	505.4	515.7	537.0	563.4	609.1	682.2	772.7	897.1	984.8
57.5°	446.0	443.6	451.2	458.2	472.4	494.5	527.5	581.7	668.0	774.1	865.5
60°	392.2	394.6	400.2	405.9	415.8	435.1	461.1	504.4	567.6	662.8	756.2
62.5°	346.0	347.9	349.3	357.3	366.3	380.0	401.2	436.5	488.9	567.6	651.0
65°	307.4	304.1	306.0	311.6	318.7	330.0	349.8	375.7	414.9	479.0	548.3
67.5°	262.1	263.1	263.5	266.8	273.0	283.8	297.9	319.2	351.2	401.7	462.5
70°	223.5	223.9	224.4	227.2	232.4	238.5	248.4	264.9	292.3	331.4	379.0
72.5°	183.9	185.7	185.7	188.1	191.9	195.2	204.6	218.3	239.0	270.1	310.2
75°	144.3	147.6	148.5	151.3	154.6	155.6	162.6	173.5	186.7	212.1	243.7
77.5°	112.2	112.2	114.1	117.4	117.4	120.2	127.8	132.5	142.8	160.3	184.3
80°	79.2	80.6	80.6	81.6	83.4	85.8	89.1	93.3	102.3	115.0	127.8
82.5°	51.9	52.3	52.8	55.2	54.2	56.6	58.0	63.2	67.4	73.5	81.6
85°	27.3	27.3	27.8	29.2	30.6	31.1	32.1	34.4	37.7	40.5	45.3
87.5°	11.3	10.8	10.8	11.8	11.8	12.3	12.7	13.7	15.6	15.6	17.4
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°	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5
2.5°	1205.0	1201.2	1194.6	1188.9	1181.9	1176.7	1171.5	1164.9	1158.3	1151.2	1143.7
5°	1253.1	1241.7	1229.0	1216.3	1201.2	1188.9	1175.7	1160.7	1147.9	1133.8	1118.7
7.5°	1308.2	1288.4	1266.3	1241.3	1217.7	1196.5	1174.8	1154.1	1135.2	1114.0	1093.2
10°	1361.5	1327.1	1299.3	1265.3	1231.8	1200.7	1171.0	1143.7	1116.3	1089.9	1064.5
12.5°	1397.8	1358.7	1323.8	1284.6	1245.5	1206.4	1167.3	1129.5	1097.0	1065.0	1038.1
15°	1422.8	1395.4	1349.2	1302.1	1250.7	1199.8	1155.5	1111.6	1073.0	1035.7	1003.7
17.5°	1438.3	1403.0	1357.7	1308.2	1251.6	1198.4	1145.1	1092.8	1048.5	1008.4	972.1
20°	1442.6	1401.1	1353.9	1302.6	1246.0	1187.5	1127.7	1070.6	1022.5	976.8	940.0
22.5°	1438.3	1390.2	1339.8	1289.8	1230.4	1171.0	1108.3	1046.1	990.9	943.8	905.1
25°	1431.3	1373.3	1320.5	1261.5	1206.4	1149.8	1085.2	1019.2	961.7	912.7	869.3
27.5°	1422.3	1355.8	1290.8	1232.8	1172.9	1117.3	1057.9	990.5	930.6	876.9	836.3
30°	1411.9	1332.7	1260.6	1191.8	1135.2	1079.6	1021.6	957.9	897.6	846.2	802.4
32.5°	1400.1	1308.2	1223.4	1149.3	1089.0	1037.6	983.4	922.6	863.2	808.0	769.8
35°	1383.6	1274.7	1183.3	1103.1	1040.4	984.8	937.2	883.9	825.0	773.6	734.0
37.5°	1364.3	1245.0	1142.7	1056.0	987.6	930.6	886.8	843.4	788.2	738.7	700.5
40°	1338.4	1209.2	1099.8	1006.0	933.0	876.9	834.0	796.7	751.0	701.0	666.6
42.5°	1304.4	1169.6	1051.3	951.3	880.6	820.8	780.7	746.7	707.6	664.2	630.3
45°	1265.8	1124.4	997.1	899.0	822.2	765.1	726.0	695.4	665.7	627.0	595.4
47.5°	1205.4	1071.1	948.0	839.6	764.2	709.0	672.3	643.0	620.9	590.2	559.1
50°	1133.8	1010.7	890.1	781.2	704.8	651.5	616.6	591.2	572.3	548.7	525.2
52.5°	1055.1	942.9	826.4	724.6	648.2	597.8	561.0	538.4	526.1	507.3	488.9
55°	963.1	866.5	758.1	665.2	590.2	538.8	507.3	491.2	477.6	468.1	451.6
57.5°	870.7	789.2	692.5	600.6	531.8	486.0	457.8	439.8	429.9	423.3	411.6
60°	769.8	705.7	617.1	537.4	476.1	432.8	407.8	393.2	384.2	380.4	372.4
62.5°	673.7	624.6	544.0	477.6	422.9	384.7	359.7	347.9	342.3	338.0	333.3
65°	578.9	540.3	476.6	414.4	368.2	333.8	314.0	304.5	300.3	295.6	295.1
67.5°	493.6	458.2	407.3	356.4	317.7	288.5	271.1	261.6	256.9	257.4	255.0
70°	409.7	382.3	340.8	299.4	266.4	243.3	226.8	220.6	218.7	218.3	216.4
72.5°	331.4	315.9	279.6	244.7	218.7	200.8	187.6	182.4	180.1	179.1	179.1
75°	262.6	251.3	220.2	193.8	174.0	159.3	150.4	146.6	143.3	145.2	143.8
77.5°	197.1	187.6	166.4	147.6	132.5	120.2	116.0	112.7	110.8	110.3	112.2
80°	138.6	132.9	119.7	104.7	93.3	86.3	83.4	80.6	79.2	78.3	79.2
82.5°	89.1	85.8	76.4	67.4	60.8	57.0	54.2	52.8	50.4	50.9	51.9
85°	48.6	47.6	41.5	38.7	32.5	32.1	30.2	28.8	29.2	28.3	29.7
87.5°	19.8	18.9	17.4	16.0	14.1	12.7	11.8	12.7	11.3	12.7	12.3
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°	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5	1162.5
2.5°	1139.9	1134.7	1128.6	1122.9	1114.5	1108.8	1106.0	1106.9	1103.6	1102.7	1102.2
5°	1109.7	1098.0	1086.6	1077.2	1067.3	1056.0	1048.0	1045.6	1044.7	1042.3	1037.1
7.5°	1078.6	1063.5	1048.9	1035.3	1021.1	1007.9	999.9	993.3	989.5	982.9	981.5
10°	1045.6	1027.2	1011.7	991.9	974.9	961.2	950.9	945.2	941.9	935.8	930.6
12.5°	1014.0	994.7	970.7	952.8	934.8	920.7	908.9	899.5	897.1	889.1	884.9
15°	980.1	956.5	934.8	914.1	897.1	879.2	872.1	863.7	855.2	848.1	846.7
17.5°	947.6	919.3	898.1	877.8	857.1	843.9	834.4	828.8	822.2	818.4	811.8
20°	908.4	885.3	861.8	842.9	825.0	813.7	801.0	795.8	791.1	782.1	779.3
22.5°	875.4	847.6	827.8	809.0	792.9	776.9	768.0	762.8	755.7	751.0	747.2
25°	841.0	817.9	792.9	774.1	760.4	744.4	738.3	731.7	725.5	721.3	717.5
27.5°	807.6	782.1	761.8	743.0	728.8	717.5	709.0	702.0	697.7	694.4	692.1
30°	772.7	749.1	730.2	712.8	696.8	687.3	679.3	676.5	671.8	669.4	665.7
32.5°	741.1	717.0	699.1	684.0	669.9	660.5	655.8	651.5	646.8	642.6	642.1
35°	705.3	684.5	668.0	651.5	641.1	633.6	628.4	624.2	620.4	617.1	615.2
37.5°	673.7	653.9	635.5	623.7	612.4	605.8	600.1	598.7	594.9	595.4	592.6
40°	639.7	621.8	606.3	594.5	586.9	579.9	576.1	571.4	569.0	569.5	567.1
42.5°	606.7	590.2	576.1	565.2	557.2	552.0	548.7	545.0	542.1	540.3	539.8
45°	573.3	558.6	546.9	536.0	529.4	524.7	520.5	515.7	513.4	512.4	512.0
47.5°	540.3	527.1	514.3	506.8	500.7	496.4	492.2	488.4	486.5	485.1	482.7
50°	506.3	493.1	484.2	474.7	469.5	463.9	459.2	457.3	454.9	454.5	456.8
52.5°	471.0	460.6	452.6	445.0	438.9	432.8	428.1	425.7	427.1	427.1	429.9
55°	437.5	426.6	419.1	413.0	406.4	400.7	396.0	396.0	396.0	398.8	402.6
57.5°	400.2	390.8	385.2	378.1	372.0	368.2	364.9	364.4	366.3	371.0	375.3
60°	362.5	355.9	349.8	344.1	338.0	335.2	334.7	333.8	336.6	341.3	350.3
62.5°	325.3	321.0	313.5	310.7	305.5	302.2	302.2	303.1	307.4	314.9	322.9
65°	289.5	283.3	277.7	274.8	271.5	268.7	268.7	272.5	278.6	285.7	295.6
67.5°	252.7	247.5	243.7	240.9	237.1	235.7	237.1	241.4	248.9	256.0	266.4
70°	213.1	212.1	208.8	205.1	203.2	203.2	204.6	209.3	215.0	225.8	234.8
72.5°	176.8	176.8	174.9	172.5	171.1	172.5	173.5	178.2	185.3	194.7	204.6
75°	143.8	142.4	141.0	140.0	139.5	140.5	141.9	145.7	154.2	163.1	171.1
77.5°	111.3	110.3	108.9	109.8	109.8	110.3	114.6	118.8	123.5	130.6	139.1
80°	80.1	80.6	79.2	78.7	81.1	82.0	85.3	88.6	91.9	99.9	106.1
82.5°	52.8	53.7	53.3	54.2	55.2	55.2	58.9	62.2	65.1	70.7	75.4
85°	30.2	30.6	30.6	32.1	33.0	32.5	35.8	37.7	39.1	43.4	46.2
87.5°	13.2	13.7	14.1	14.1	14.1	16.0	16.5	17.4	17.9	18.9	20.3
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: P243677

CATALOG NUMBER: S125DRP-H850D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1162.5	1162.5	1162.5	1162.5
2.5°	1098.0	1097.5	1099.8	1101.3
5°	1033.8	1032.4	1030.5	1031.5
7.5°	976.8	973.0	972.1	972.1
10°	926.4	922.6	921.6	920.2
12.5°	883.5	877.8	875.4	873.1
15°	842.9	842.0	836.8	831.6
17.5°	805.7	807.1	801.9	799.5
20°	774.6	770.3	768.4	767.5
22.5°	743.0	739.7	739.7	736.4
25°	714.7	711.9	712.3	709.0
27.5°	688.3	687.8	687.3	686.4
30°	663.8	661.9	660.0	660.9
32.5°	640.2	637.4	636.0	635.5
35°	615.7	614.7	612.9	611.9
37.5°	591.6	592.1	589.8	589.3
40°	565.7	565.2	564.8	563.8
42.5°	538.4	537.0	537.9	537.4
45°	511.0	509.6	510.6	509.1
47.5°	484.2	485.1	485.1	485.6
50°	457.8	459.6	459.6	461.1
52.5°	433.2	437.0	437.0	436.5
55°	406.8	411.1	412.5	413.0
57.5°	381.9	386.1	390.3	391.3
60°	355.0	362.5	366.8	367.7
62.5°	330.9	338.0	343.7	344.1
65°	304.1	312.6	317.7	319.6
67.5°	276.7	283.3	290.4	293.2
70°	245.6	253.6	258.3	260.2
72.5°	213.1	222.0	228.2	229.1
75°	182.0	188.6	193.3	194.2
77.5°	146.6	153.2	157.5	158.4
80°	111.3	116.9	119.7	121.6
82.5°	78.7	82.5	83.9	85.8
85°	48.6	51.4	51.9	51.9
87.5°	21.2	21.7	21.7	22.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243677
 CATALOG NUMBER: S125DRP-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	18.17	19.74	18.54	20.06	20.37	17.91	19.48	18.28	19.80	20.11
	3H	19.53	20.94	19.90	21.27	21.63	19.34	20.75	19.72	21.08	21.44
	4H	20.01	21.33	20.40	21.68	22.06	19.83	21.15	20.23	21.50	21.88
	6H	20.31	21.54	20.73	21.91	22.30	20.14	21.37	20.55	21.74	22.13
	8H	20.39	21.56	20.82	21.95	22.35	20.22	21.39	20.65	21.78	22.18
	12H	20.42	21.54	20.85	21.93	22.36	20.26	21.38	20.69	21.76	22.19
4H	2H	19.56	20.89	19.96	21.24	21.61	18.98	20.30	19.38	20.65	21.03
	3H	20.92	22.03	21.33	22.42	22.82	20.63	21.74	21.04	22.14	22.54
	4H	21.42	22.42	21.86	22.83	23.27	21.19	22.19	21.63	22.61	23.04
	6H	21.78	22.64	22.23	23.09	23.54	21.57	22.44	22.03	22.88	23.34
	8H	21.87	22.68	22.33	23.12	23.59	21.67	22.48	22.13	22.92	23.39
	12H	21.92	22.64	22.40	23.12	23.59	21.72	22.45	22.20	22.93	23.40
8H	4H	21.88	22.69	22.34	23.13	23.60	21.55	22.36	22.01	22.80	23.27
	6H	22.31	22.98	22.80	23.47	23.95	22.05	22.72	22.54	23.21	23.69
	8H	22.44	23.04	22.95	23.55	24.03	22.19	22.80	22.71	23.31	23.79
	12H	22.52	23.05	23.03	23.55	24.11	22.29	22.83	22.80	23.32	23.88
12H	4H	21.92	22.65	22.40	23.12	23.59	21.57	22.29	22.05	22.77	23.24
	6H	22.38	22.98	22.89	23.49	23.98	22.10	22.70	22.61	23.21	23.70
	8H	22.55	23.09	23.06	23.58	24.14	22.30	22.83	22.81	23.33	23.89