

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: P243667

Luminaire Tested: S125DRP-H850D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243667
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-H850D830-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

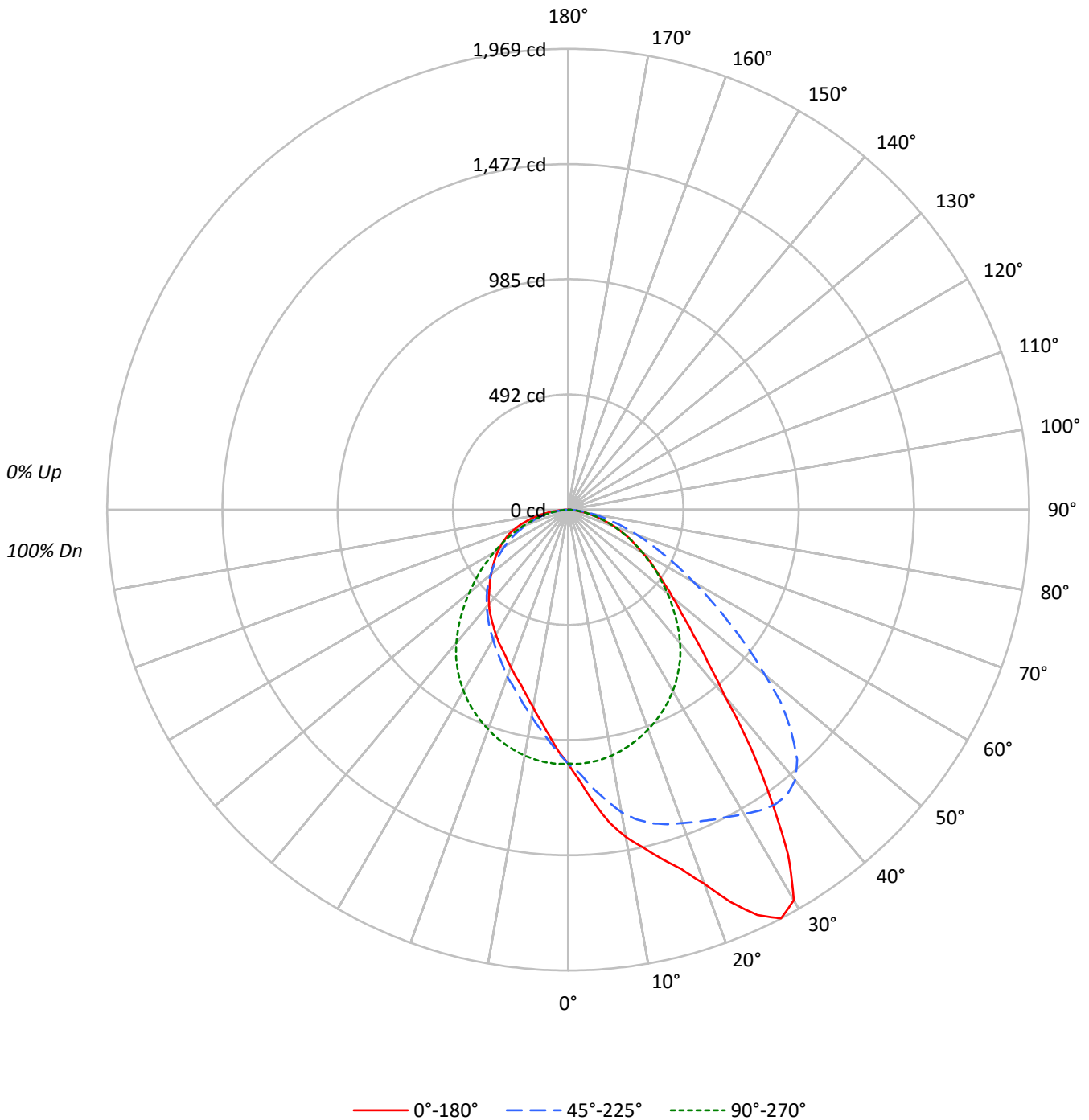
Lumens per Lamp: N/A
Luminaire Lumens: 3092.4 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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					85			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53					53			
5	78	65	56	50	75	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	40					40			
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	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°	7711	7711	7711	7711	7711
5°	8959	8507	7729	7032	6868
10°	10250	9472	7703	6475	6199
15°	11364	10205	7634	6038	5711
20°	12865	10779	7557	5744	5418
25°	14982	11459	7460	5449	5190
30°	15816	12324	7338	5265	5063
35°	13079	13350	7158	5131	4955
40°	9675	13994	6899	5021	4882
45°	7607	13559	6523	4922	4776
50°	6442	12110	6101	4788	4758
55°	5736	10375	5681	4634	4776
60°	5204	8793	5217	4446	4878
65°	4825	7517	4780	4218	5017
70°	4335	6427	4279	3940	5048
75°	3696	5437	3757	3600	4979
80°	3025	4396	3078	3135	4646
85°	2079	3083	2185	2479	3947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.4
10°-20°	313.2	10.1
20°-30°	509.2	16.5
30°-40°	619.5	20.0
40°-50°	566.9	18.3
50°-60°	453.7	14.7
60°-70°	316.0	10.2
70°-80°	167.9	5.4
80°-90°	41.2	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°	927.2	30.0
0°-40°	1546.7	50.0
0°-60°	2567.3	83.0
0°-90°	3092.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1085	1085	1085	1085	1085	
5°	1256	1192	1083	986	963	125
15°	1544	1387	1038	821	776	443
25°	1910	1461	951	695	662	872
35°	1507	1539	825	591	571	935
45°	757	1349	649	490	475	597
55°	463	837	458	374	385	418
65°	287	447	284	251	298	282
75°	135	198	137	131	181	146
85°	26	38	27	30	48	33
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°	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0
2.5°	1161.6	1156.8	1155.4	1155.9	1153.2	1151.0	1145.8	1138.7	1133.9	1127.7	1126.0
5°	1255.8	1243.9	1246.1	1242.6	1236.8	1229.4	1222.8	1212.2	1202.1	1192.4	1179.6
7.5°	1348.2	1346.0	1339.8	1338.9	1329.7	1316.9	1303.7	1289.2	1267.6	1252.7	1235.5
10°	1420.3	1424.7	1415.9	1416.4	1400.1	1387.3	1375.9	1357.0	1332.8	1312.5	1287.4
12.5°	1478.4	1480.2	1478.8	1473.1	1462.6	1441.0	1430.0	1410.2	1383.8	1356.1	1336.7
15°	1544.4	1539.6	1532.1	1525.0	1509.6	1494.2	1471.4	1448.0	1414.6	1386.9	1358.7
17.5°	1610.4	1609.5	1600.3	1585.3	1566.0	1545.7	1511.4	1481.5	1445.8	1409.3	1374.1
20°	1701.0	1696.2	1682.6	1665.4	1629.8	1601.2	1558.5	1517.6	1470.9	1425.2	1384.2
22.5°	1814.6	1798.7	1785.1	1758.7	1717.8	1668.0	1620.1	1560.7	1495.6	1441.9	1390.8
25°	1910.5	1903.4	1888.9	1859.4	1812.8	1753.0	1681.7	1614.4	1532.5	1461.2	1394.8
27.5°	1968.6	1965.5	1956.7	1929.0	1890.2	1830.8	1754.7	1668.9	1576.1	1479.7	1400.1
30°	1927.2	1927.6	1932.5	1929.4	1912.2	1874.0	1806.2	1720.0	1612.6	1501.7	1401.4
32.5°	1749.4	1761.3	1799.2	1817.2	1841.4	1849.3	1819.0	1747.2	1643.4	1523.7	1405.8
35°	1507.4	1536.5	1562.0	1614.8	1677.7	1729.2	1759.1	1735.8	1656.2	1538.7	1408.0
37.5°	1279.5	1277.3	1316.9	1374.1	1441.0	1528.6	1613.5	1660.1	1634.2	1535.6	1404.0
40°	1042.8	1063.0	1087.7	1138.3	1216.6	1324.4	1425.6	1525.5	1561.6	1508.3	1388.6
42.5°	880.9	890.1	914.8	954.4	1010.7	1120.7	1220.6	1349.0	1441.4	1447.6	1354.8
45°	756.8	766.9	774.0	813.1	865.5	939.4	1041.9	1171.3	1295.4	1349.0	1299.8
47.5°	657.4	663.1	678.5	702.2	736.6	802.1	884.0	1001.4	1136.5	1240.8	1224.1
50°	582.6	587.0	599.3	612.5	640.6	689.0	755.0	851.4	981.2	1095.2	1132.6
52.5°	516.6	522.3	528.4	541.2	567.2	599.7	653.4	728.6	849.2	965.8	1025.2
55°	462.9	465.1	471.7	481.4	501.2	525.8	568.5	636.7	721.2	837.3	919.2
57.5°	416.2	414.0	421.1	427.7	440.9	461.6	492.4	543.0	623.5	722.5	807.8
60°	366.1	368.3	373.6	378.8	388.1	406.1	430.3	470.8	529.8	618.6	705.8
62.5°	323.0	324.7	326.0	333.5	341.9	354.6	374.4	407.4	456.3	529.8	607.6
65°	286.9	283.8	285.6	290.8	297.4	308.0	326.5	350.7	387.2	447.0	511.7
67.5°	244.6	245.5	246.0	249.0	254.8	264.9	278.1	297.9	327.8	374.9	431.6
70°	208.6	209.0	209.4	212.1	216.9	222.6	231.9	247.3	272.8	309.3	353.8
72.5°	171.6	173.4	173.4	175.6	179.1	182.2	191.0	203.7	223.1	252.1	289.5
75°	134.6	137.7	138.6	141.2	144.3	145.2	151.8	161.9	174.2	198.0	227.5
77.5°	104.7	104.7	106.5	109.6	109.6	112.2	119.2	123.6	133.3	149.6	172.0
80°	73.9	75.2	75.2	76.1	77.9	80.1	83.2	87.1	95.5	107.4	119.2
82.5°	48.4	48.8	49.3	51.5	50.6	52.8	54.1	59.0	62.9	68.6	76.1
85°	25.5	25.5	26.0	27.3	28.6	29.0	29.9	32.1	35.2	37.8	42.2
87.5°	10.6	10.1	10.1	11.0	11.0	11.4	11.9	12.8	14.5	14.5	16.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0
2.5°	1124.6	1121.1	1115.0	1109.7	1103.1	1098.2	1093.4	1087.2	1081.1	1074.5	1067.4
5°	1169.5	1159.0	1147.1	1135.2	1121.1	1109.7	1097.4	1083.3	1071.4	1058.2	1044.1
7.5°	1221.0	1202.5	1181.8	1158.5	1136.5	1116.7	1096.5	1077.1	1059.5	1039.7	1020.4
10°	1270.7	1238.6	1212.6	1181.0	1149.7	1120.7	1093.0	1067.4	1041.9	1017.3	993.5
12.5°	1304.6	1268.1	1235.5	1199.0	1162.5	1126.0	1089.4	1054.2	1023.9	994.0	968.9
15°	1327.9	1302.4	1259.3	1215.3	1167.3	1119.8	1078.4	1037.5	1001.4	966.7	936.8
17.5°	1342.4	1309.4	1267.2	1221.0	1168.2	1118.5	1068.8	1019.9	978.6	941.2	907.3
20°	1346.4	1307.7	1263.7	1215.7	1162.9	1108.4	1052.5	999.2	954.4	911.7	877.4
22.5°	1342.4	1297.6	1250.5	1203.8	1148.4	1093.0	1034.4	976.4	924.9	880.9	844.8
25°	1335.8	1281.7	1232.4	1177.4	1126.0	1073.2	1012.9	951.3	897.6	851.8	811.4
27.5°	1327.5	1265.4	1204.7	1150.6	1094.7	1042.8	987.4	924.4	868.6	818.4	780.6
30°	1317.8	1243.9	1176.6	1112.3	1059.5	1007.6	953.5	894.1	837.8	789.8	748.9
32.5°	1306.8	1221.0	1141.8	1072.7	1016.4	968.4	917.8	861.1	805.6	754.2	718.5
35°	1291.4	1189.8	1104.4	1029.6	971.1	919.2	874.7	825.0	770.0	722.0	685.1
37.5°	1273.4	1162.0	1066.6	985.6	921.8	868.6	827.6	787.2	735.7	689.5	653.8
40°	1249.2	1128.6	1026.5	939.0	870.8	818.4	778.4	743.6	700.9	654.3	622.2
42.5°	1217.5	1091.6	981.2	887.9	821.9	766.0	728.6	697.0	660.4	620.0	588.3
45°	1181.4	1049.4	930.6	839.1	767.4	714.1	677.6	649.0	621.3	585.2	555.7
47.5°	1125.1	999.7	884.8	783.6	713.2	661.8	627.4	600.2	579.5	550.9	521.8
50°	1058.2	943.4	830.7	729.1	657.8	608.1	575.5	551.8	534.2	512.2	490.2
52.5°	984.7	880.0	771.3	676.3	605.0	557.9	523.6	502.5	491.0	473.4	456.3
55°	898.9	808.7	707.5	620.8	550.9	502.9	473.4	458.5	445.7	436.9	421.5
57.5°	812.7	736.6	646.4	560.6	496.3	453.6	427.2	410.5	401.3	395.1	384.1
60°	718.5	658.7	576.0	501.6	444.4	403.9	380.6	367.0	358.6	355.1	347.6
62.5°	628.8	583.0	507.8	445.7	394.7	359.0	335.7	324.7	319.4	315.5	311.1
65°	540.3	504.2	444.8	386.8	343.6	311.5	293.0	284.2	280.3	275.9	275.4
67.5°	460.7	427.7	380.2	332.6	296.6	269.3	253.0	244.2	239.8	240.2	238.0
70°	382.4	356.8	318.1	279.4	248.6	227.0	211.6	205.9	204.2	203.7	202.0
72.5°	309.3	294.8	260.9	228.4	204.2	187.4	175.1	170.3	168.1	167.2	167.2
75°	245.1	234.5	205.5	180.8	162.4	148.7	140.4	136.8	133.8	135.5	134.2
77.5°	183.9	175.1	155.3	137.7	123.6	112.2	108.2	105.2	103.4	103.0	104.7
80°	129.4	124.1	111.8	97.7	87.1	80.5	77.9	75.2	73.9	73.0	73.9
82.5°	83.2	80.1	71.3	62.9	56.8	53.2	50.6	49.3	47.1	47.5	48.4
85°	45.3	44.4	38.7	36.1	30.4	29.9	28.2	26.8	27.3	26.4	27.7
87.5°	18.5	17.6	16.3	15.0	13.2	11.9	11.0	11.9	10.6	11.9	11.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0
2.5°	1063.9	1059.1	1053.4	1048.1	1040.2	1034.9	1032.2	1033.1	1030.0	1029.2	1028.7
5°	1035.8	1024.8	1014.2	1005.4	996.2	985.6	978.1	975.9	975.0	972.8	968.0
7.5°	1006.7	992.6	979.0	966.2	953.0	940.7	933.2	927.1	923.6	917.4	916.1
10°	975.9	958.8	944.2	925.8	909.9	897.2	887.5	882.2	879.1	873.4	868.6
12.5°	946.4	928.4	906.0	889.2	872.5	859.3	848.3	839.5	837.3	829.8	825.9
15°	914.8	892.8	872.5	853.2	837.3	820.6	814.0	806.1	798.2	791.6	790.2
17.5°	884.4	858.0	838.2	819.3	799.9	787.6	778.8	773.5	767.4	763.8	757.7
20°	847.9	826.3	804.3	786.7	770.0	759.4	747.6	742.7	738.3	730.0	727.3
22.5°	817.1	791.1	772.6	755.0	740.1	725.1	716.8	711.9	705.3	700.9	697.4
25°	785.0	763.4	740.1	722.5	709.7	694.8	689.0	682.9	677.2	673.2	669.7
27.5°	753.7	730.0	711.0	693.4	680.2	669.7	661.8	655.2	651.2	648.1	645.9
30°	721.2	699.2	681.6	665.3	650.3	641.5	634.0	631.4	627.0	624.8	621.3
32.5°	691.7	669.2	652.5	638.4	625.2	616.4	612.0	608.1	603.7	599.7	599.3
35°	658.2	638.9	623.5	608.1	598.4	591.4	586.5	582.6	579.0	576.0	574.2
37.5°	628.8	610.3	593.1	582.1	571.6	565.4	560.1	558.8	555.3	555.7	553.1
40°	597.1	580.4	565.8	554.8	547.8	541.2	537.7	533.3	531.1	531.5	529.3
42.5°	566.3	550.9	537.7	527.6	520.1	515.2	512.2	508.6	506.0	504.2	503.8
45°	535.0	521.4	510.4	500.3	494.1	489.7	485.8	481.4	479.2	478.3	477.8
47.5°	504.2	491.9	480.0	473.0	467.3	463.3	459.4	455.8	454.1	452.8	450.6
50°	472.6	460.2	451.9	443.1	438.2	433.0	428.6	426.8	424.6	424.2	426.4
52.5°	439.6	429.9	422.4	415.4	409.6	403.9	399.5	397.3	398.6	398.6	401.3
55°	408.3	398.2	391.2	385.4	379.3	374.0	369.6	369.6	369.6	372.2	375.8
57.5°	373.6	364.8	359.5	352.9	347.2	343.6	340.6	340.1	341.9	346.3	350.2
60°	338.4	332.2	326.5	321.2	315.5	312.8	312.4	311.5	314.2	318.6	326.9
62.5°	303.6	299.6	292.6	290.0	285.1	282.0	282.0	282.9	286.9	293.9	301.4
65°	270.2	264.4	259.2	256.5	253.4	250.8	250.8	254.3	260.0	266.6	275.9
67.5°	235.8	231.0	227.5	224.8	221.3	220.0	221.3	225.3	232.3	238.9	248.6
70°	198.9	198.0	194.9	191.4	189.6	189.6	191.0	195.4	200.6	210.8	219.1
72.5°	165.0	165.0	163.2	161.0	159.7	161.0	161.9	166.3	172.9	181.7	191.0
75°	134.2	132.9	131.6	130.7	130.2	131.1	132.4	136.0	143.9	152.2	159.7
77.5°	103.8	103.0	101.6	102.5	102.5	103.0	106.9	110.9	115.3	121.9	129.8
80°	74.8	75.2	73.9	73.5	75.7	76.6	79.6	82.7	85.8	93.3	99.0
82.5°	49.3	50.2	49.7	50.6	51.5	51.5	55.0	58.1	60.7	66.0	70.4
85°	28.2	28.6	28.6	29.9	30.8	30.4	33.4	35.2	36.5	40.5	43.1
87.5°	12.3	12.8	13.2	13.2	13.2	15.0	15.4	16.3	16.7	17.6	18.9
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: P243667

CATALOG NUMBER: S125DRP-H850D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1085.0	1085.0	1085.0	1085.0
2.5°	1024.8	1024.3	1026.5	1027.8
5°	964.9	963.6	961.8	962.7
7.5°	911.7	908.2	907.3	907.3
10°	864.6	861.1	860.2	858.9
12.5°	824.6	819.3	817.1	814.9
15°	786.7	785.8	781.0	776.2
17.5°	752.0	753.3	748.4	746.2
20°	722.9	719.0	717.2	716.3
22.5°	693.4	690.4	690.4	687.3
25°	667.0	664.4	664.8	661.8
27.5°	642.4	642.0	641.5	640.6
30°	619.5	617.8	616.0	616.9
32.5°	597.5	594.9	593.6	593.1
35°	574.6	573.8	572.0	571.1
37.5°	552.2	552.6	550.4	550.0
40°	528.0	527.6	527.1	526.2
42.5°	502.5	501.2	502.0	501.6
45°	477.0	475.6	476.5	475.2
47.5°	451.9	452.8	452.8	453.2
50°	427.2	429.0	429.0	430.3
52.5°	404.4	407.9	407.9	407.4
55°	379.7	383.7	385.0	385.4
57.5°	356.4	360.4	364.3	365.2
60°	331.3	338.4	342.3	343.2
62.5°	308.9	315.5	320.8	321.2
65°	283.8	291.7	296.6	298.3
67.5°	258.3	264.4	271.0	273.7
70°	229.2	236.7	241.1	242.9
72.5°	198.9	207.2	213.0	213.8
75°	169.8	176.0	180.4	181.3
77.5°	136.8	143.0	147.0	147.8
80°	103.8	109.1	111.8	113.5
82.5°	73.5	77.0	78.3	80.1
85°	45.3	48.0	48.4	48.4
87.5°	19.8	20.2	20.2	21.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243667

CATALOG NUMBER: S125DRP-H850D830-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	17.93	19.50	18.30	19.82	20.13	17.67	19.25	18.04	19.56	19.87
	3H	19.29	20.70	19.67	21.03	21.39	19.10	20.51	19.48	20.84	21.20
	4H	19.77	21.09	20.17	21.44	21.82	19.59	20.91	19.99	21.26	21.64
	6H	20.07	21.30	20.49	21.67	22.06	19.90	21.13	20.31	21.50	21.89
	8H	20.15	21.32	20.58	21.71	22.11	19.98	21.15	20.41	21.54	21.94
	12H	20.18	21.31	20.61	21.69	22.12	20.02	21.14	20.45	21.52	21.95
4H	2H	19.32	20.65	19.72	21.00	21.37	18.74	20.06	19.14	20.41	20.79
	3H	20.68	21.79	21.09	22.18	22.59	20.39	21.50	20.80	21.90	22.30
	4H	21.18	22.18	21.62	22.60	23.03	20.95	21.95	21.39	22.37	22.80
	6H	21.54	22.41	21.99	22.85	23.30	21.33	22.20	21.79	22.64	23.10
	8H	21.63	22.44	22.09	22.88	23.35	21.43	22.24	21.89	22.68	23.15
	12H	21.68	22.40	22.16	22.88	23.35	21.48	22.21	21.96	22.69	23.16
8H	4H	21.64	22.45	22.10	22.89	23.36	21.31	22.12	21.77	22.56	23.03
	6H	22.07	22.74	22.56	23.23	23.71	21.81	22.48	22.30	22.97	23.45
	8H	22.20	22.80	22.71	23.31	23.79	21.95	22.56	22.47	23.07	23.55
	12H	22.28	22.82	22.79	23.31	23.87	22.05	22.59	22.56	23.08	23.64
12H	4H	21.68	22.41	22.16	22.88	23.35	21.33	22.05	21.81	22.53	23.00
	6H	22.14	22.74	22.65	23.25	23.74	21.86	22.46	22.37	22.97	23.46
	8H	22.31	22.85	22.82	23.34	23.90	22.06	22.59	22.57	23.09	23.65