

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: P243687

Luminaire Tested: S125DRP-H850D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243687  
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-H850D935-X4F0-XX-UDD-A-W  
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

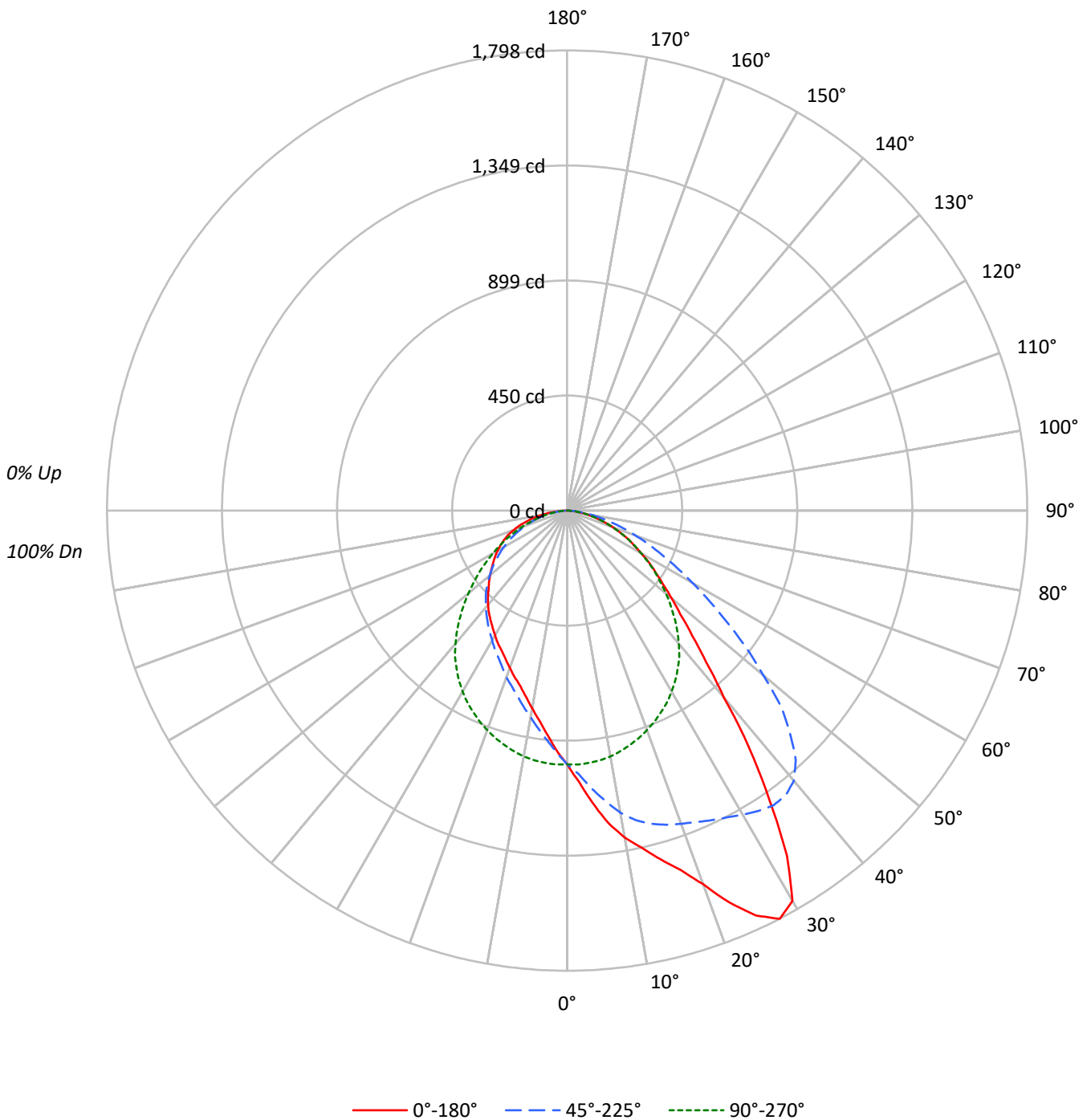
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2824.9 lumens  
Efficiency: N/A  
Efficacy: 119.7 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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CATALOG NUMBER: S125DRP-H850D935-X4F0-XX-UDD-A-W

### 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°	7045	7045	7045	7045	7045
5°	8184	7771	7060	6423	6274
10°	9363	8653	7037	5914	5662
15°	10381	9322	6974	5516	5217
20°	11753	9847	6904	5247	4949
25°	13686	10468	6815	4977	4741
30°	14448	11258	6703	4809	4625
35°	11947	12196	6539	4687	4527
40°	8838	12783	6303	4587	4460
45°	6948	12386	5959	4497	4363
50°	5885	11061	5573	4373	4347
55°	5239	9478	5189	4233	4363
60°	4753	8033	4765	4063	4456
65°	4408	6868	4366	3853	4583
70°	3959	5873	3909	3599	4611
75°	3378	4968	3433	3290	4547
80°	2763	4015	2812	2861	4244
85°	1900	2822	1998	2259	3604

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 12386 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	3.4
10°-20°	286.1	10.1
20°-30°	465.2	16.5
30°-40°	565.9	20.0
40°-50°	517.8	18.3
50°-60°	414.4	14.7
60°-70°	288.6	10.2
70°-80°	153.4	5.4
80°-90°	37.7	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°	847.0	30.0
0°-40°	1412.9	50.0
0°-60°	2345.2	83.0
0°-90°	2824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	991	991	991	991	991	
5°	1147	1089	990	900	879	114
15°	1411	1267	948	750	709	405
25°	1745	1335	869	635	604	797
35°	1377	1406	754	540	522	854
45°	691	1232	593	447	434	545
55°	423	765	419	342	352	381
65°	262	408	260	229	272	258
75°	123	181	125	120	166	133
85°	23	35	24	28	44	30
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°	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2
2.5°	1061.1	1056.7	1055.5	1055.9	1053.5	1051.5	1046.6	1040.2	1035.8	1030.2	1028.5
5°	1147.1	1136.3	1138.3	1135.1	1129.8	1123.0	1117.0	1107.3	1098.1	1089.2	1077.6
7.5°	1231.5	1229.5	1223.9	1223.1	1214.6	1203.0	1190.9	1177.7	1158.0	1144.3	1128.6
10°	1297.4	1301.5	1293.4	1293.8	1279.0	1267.3	1256.8	1239.6	1217.5	1199.0	1176.1
12.5°	1350.5	1352.1	1350.9	1345.7	1336.0	1316.3	1306.3	1288.2	1264.1	1238.8	1221.1
15°	1410.8	1406.4	1399.5	1393.1	1379.0	1365.0	1344.1	1322.8	1292.2	1266.9	1241.2
17.5°	1471.1	1470.3	1461.8	1448.2	1430.5	1412.0	1380.6	1353.3	1320.8	1287.4	1255.2
20°	1553.9	1549.5	1537.0	1521.3	1488.8	1462.6	1423.6	1386.3	1343.7	1301.9	1264.5
22.5°	1657.6	1643.1	1630.6	1606.5	1569.1	1523.7	1479.9	1425.7	1366.2	1317.1	1270.5
25°	1745.2	1738.8	1725.5	1698.6	1656.0	1601.3	1536.2	1474.7	1399.9	1334.8	1274.1
27.5°	1798.2	1795.4	1787.4	1762.1	1726.7	1672.4	1602.9	1524.5	1439.7	1351.7	1279.0
30°	1760.5	1760.9	1765.3	1762.5	1746.8	1711.8	1649.9	1571.2	1473.1	1371.8	1280.2
32.5°	1598.1	1608.9	1643.5	1660.0	1682.1	1689.3	1661.6	1596.1	1501.2	1391.9	1284.2
35°	1377.0	1403.6	1426.9	1475.1	1532.6	1579.6	1606.9	1585.6	1512.9	1405.6	1286.2
37.5°	1168.8	1166.8	1203.0	1255.2	1316.3	1396.3	1473.9	1516.5	1492.8	1402.7	1282.6
40°	952.6	971.1	993.6	1039.8	1111.3	1209.8	1302.3	1393.5	1426.5	1377.8	1268.5
42.5°	804.7	813.1	835.6	871.8	923.2	1023.7	1115.0	1232.3	1316.7	1322.4	1237.6
45°	691.3	700.6	707.0	742.8	790.6	858.1	951.8	1069.9	1183.3	1232.3	1187.3
47.5°	600.5	605.7	619.8	641.5	672.8	732.7	807.5	914.8	1038.2	1133.5	1118.2
50°	532.2	536.2	547.4	559.5	585.2	629.4	689.7	777.7	896.3	1000.4	1034.6
52.5°	471.9	477.1	482.7	494.4	518.1	547.8	596.9	665.6	775.7	882.2	936.5
55°	422.8	424.8	430.9	439.7	457.8	480.3	519.3	581.6	658.8	764.9	839.6
57.5°	380.2	378.2	384.7	390.7	402.7	421.6	449.8	496.0	569.5	660.0	737.9
60°	334.4	336.4	341.2	346.1	354.5	371.0	393.1	430.1	483.9	565.1	644.7
62.5°	295.0	296.6	297.8	304.7	312.3	324.0	342.0	372.2	416.8	483.9	555.1
65°	262.1	259.2	260.9	265.7	271.7	281.4	298.2	320.3	353.7	408.4	467.4
67.5°	223.5	224.3	224.7	227.5	232.7	242.0	254.0	272.1	299.4	342.4	394.3
70°	190.5	190.9	191.3	193.7	198.2	203.4	211.8	225.9	249.2	282.6	323.2
72.5°	156.8	158.4	158.4	160.4	163.6	166.4	174.4	186.1	203.8	230.3	264.5
75°	123.0	125.8	126.6	129.0	131.8	132.6	138.7	147.9	159.2	180.9	207.8
77.5°	95.7	95.7	97.3	100.1	100.1	102.5	108.9	112.9	121.8	136.7	157.2
80°	67.5	68.7	68.7	69.5	71.1	73.2	76.0	79.6	87.2	98.1	108.9
82.5°	44.2	44.6	45.0	47.0	46.2	48.2	49.4	53.9	57.5	62.7	69.5
85°	23.3	23.3	23.7	24.9	26.1	26.5	27.3	29.3	32.2	34.6	38.6
87.5°	9.6	9.2	9.2	10.0	10.0	10.5	10.9	11.7	13.3	13.3	14.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2
2.5°	1027.3	1024.1	1018.5	1013.7	1007.6	1003.2	998.8	993.2	987.5	981.5	975.1
5°	1068.3	1058.7	1047.8	1037.0	1024.1	1013.7	1002.4	989.6	978.7	966.6	953.8
7.5°	1115.4	1098.5	1079.6	1058.3	1038.2	1020.1	1001.6	983.9	967.9	949.8	932.1
10°	1160.8	1131.4	1107.7	1078.8	1050.3	1023.7	998.4	975.1	951.8	929.3	907.6
12.5°	1191.7	1158.4	1128.6	1095.3	1061.9	1028.5	995.2	963.0	935.3	908.0	885.1
15°	1213.0	1189.7	1150.3	1110.1	1066.3	1022.9	985.1	947.8	914.8	883.0	855.7
17.5°	1226.3	1196.2	1157.6	1115.4	1067.1	1021.7	976.3	931.7	893.9	859.7	828.8
20°	1229.9	1194.5	1154.4	1110.5	1062.3	1012.5	961.4	912.8	871.8	832.8	801.5
22.5°	1226.3	1185.3	1142.3	1099.7	1049.0	998.4	944.9	891.9	844.9	804.7	771.7
25°	1220.3	1170.8	1125.8	1075.6	1028.5	980.3	925.3	869.0	819.9	778.1	741.2
27.5°	1212.6	1156.0	1100.5	1051.1	1000.0	952.6	901.9	844.5	793.4	747.6	713.0
30°	1203.8	1136.3	1074.8	1016.1	967.9	920.4	871.0	816.7	765.3	721.5	684.1
32.5°	1193.7	1115.4	1043.0	979.9	928.5	884.7	838.4	786.6	735.9	688.9	656.4
35°	1179.7	1086.8	1008.9	940.5	887.1	839.6	799.0	753.6	703.4	659.6	625.8
37.5°	1163.2	1061.5	974.3	900.3	842.0	793.4	756.0	719.1	672.0	629.8	597.3
40°	1141.1	1031.0	937.7	857.7	795.4	747.6	711.0	679.3	640.3	597.7	568.3
42.5°	1112.1	997.2	896.3	811.1	750.8	699.8	665.6	636.7	603.3	566.3	537.4
45°	1079.2	958.6	850.1	766.5	701.0	652.3	619.0	592.9	567.5	534.6	507.6
47.5°	1027.7	913.2	808.3	715.8	651.5	604.5	573.2	548.2	529.3	503.2	476.7
50°	966.6	861.7	758.8	666.0	600.9	555.5	525.7	504.0	487.9	467.9	447.8
52.5°	899.5	803.9	704.6	617.8	552.7	509.7	478.3	459.0	448.6	432.5	416.8
55°	821.1	738.8	646.3	567.1	503.2	459.4	432.5	418.8	407.2	399.1	385.1
57.5°	742.4	672.8	590.4	512.1	453.4	414.4	390.3	375.0	366.6	360.9	350.9
60°	656.4	601.7	526.1	458.2	406.0	369.0	347.7	335.2	327.6	324.4	317.5
62.5°	574.4	532.6	463.8	407.2	360.5	328.0	306.7	296.6	291.8	288.2	284.2
65°	493.6	460.6	406.4	353.3	313.9	284.6	267.7	259.6	256.0	252.0	251.6
67.5°	420.8	390.7	347.3	303.9	270.9	246.0	231.1	223.1	219.1	219.5	217.4
70°	349.3	326.0	290.6	255.2	227.1	207.4	193.3	188.1	186.5	186.1	184.5
72.5°	282.6	269.3	238.3	208.6	186.5	171.2	160.0	155.5	153.5	152.7	152.7
75°	223.9	214.2	187.7	165.2	148.3	135.9	128.2	125.0	122.2	123.8	122.6
77.5°	168.0	160.0	141.9	125.8	112.9	102.5	98.9	96.1	94.5	94.1	95.7
80°	118.2	113.3	102.1	89.2	79.6	73.6	71.1	68.7	67.5	66.7	67.5
82.5°	76.0	73.2	65.1	57.5	51.8	48.6	46.2	45.0	43.0	43.4	44.2
85°	41.4	40.6	35.4	33.0	27.7	27.3	25.7	24.5	24.9	24.1	25.3
87.5°	16.9	16.1	14.9	13.7	12.1	10.9	10.0	10.9	9.6	10.9	10.5
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°	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2	991.2
2.5°	971.9	967.5	962.2	957.4	950.2	945.3	942.9	943.7	940.9	940.1	939.7
5°	946.2	936.1	926.5	918.4	910.0	900.3	893.5	891.5	890.7	888.7	884.3
7.5°	919.6	906.8	894.3	882.6	870.6	859.3	852.5	846.9	843.7	838.0	836.8
10°	891.5	875.8	862.5	845.7	831.2	819.5	810.7	805.9	803.1	797.8	793.4
12.5°	864.6	848.1	827.6	812.3	797.0	785.0	774.9	766.9	764.9	758.0	754.4
15°	835.6	815.5	797.0	779.3	764.9	749.6	743.6	736.3	729.1	723.1	721.9
17.5°	807.9	783.8	765.7	748.4	730.7	719.5	711.4	706.6	701.0	697.8	692.1
20°	774.5	754.8	734.7	718.7	703.4	693.7	682.9	678.5	674.4	666.8	664.4
22.5°	746.4	722.7	705.8	689.7	676.1	662.4	654.7	650.3	644.3	640.3	637.1
25°	717.0	697.4	676.1	660.0	648.3	634.7	629.4	623.8	618.6	615.0	611.7
27.5°	688.5	666.8	649.5	633.4	621.4	611.7	604.5	598.5	594.9	592.0	590.0
30°	658.8	638.7	622.6	607.7	594.1	586.0	579.2	576.8	572.8	570.7	567.5
32.5°	631.8	611.3	596.1	583.2	571.1	563.1	559.1	555.5	551.5	547.8	547.4
35°	601.3	583.6	569.5	555.5	546.6	540.2	535.8	532.2	528.9	526.1	524.5
37.5°	574.4	557.5	541.8	531.8	522.1	516.5	511.7	510.5	507.2	507.6	505.2
40°	545.4	530.1	516.9	506.8	500.4	494.4	491.2	487.1	485.1	485.5	483.5
42.5°	517.3	503.2	491.2	481.9	475.1	470.7	467.9	464.6	462.2	460.6	460.2
45°	488.8	476.3	466.2	457.0	451.4	447.4	443.7	439.7	437.7	436.9	436.5
47.5°	460.6	449.4	438.5	432.1	426.9	423.2	419.6	416.4	414.8	413.6	411.6
50°	431.7	420.4	412.8	404.7	400.3	395.5	391.5	389.9	387.9	387.5	389.5
52.5°	401.5	392.7	385.9	379.4	374.2	369.0	365.0	362.9	364.2	364.2	366.6
55°	373.0	363.7	357.3	352.1	346.5	341.6	337.6	337.6	337.6	340.0	343.3
57.5°	341.2	333.2	328.4	322.4	317.1	313.9	311.1	310.7	312.3	316.3	319.9
60°	309.1	303.5	298.2	293.4	288.2	285.8	285.4	284.6	287.0	291.0	298.6
62.5°	277.3	273.7	267.3	264.9	260.5	257.6	257.6	258.4	262.1	268.5	275.3
65°	246.8	241.6	236.7	234.3	231.5	229.1	229.1	232.3	237.5	243.6	252.0
67.5°	215.4	211.0	207.8	205.4	202.2	201.0	202.2	205.8	212.2	218.2	227.1
70°	181.7	180.9	178.1	174.8	173.2	173.2	174.4	178.5	183.3	192.5	200.2
72.5°	150.7	150.7	149.1	147.1	145.9	147.1	147.9	151.9	158.0	166.0	174.4
75°	122.6	121.4	120.2	119.4	119.0	119.8	121.0	124.2	131.4	139.1	145.9
77.5°	94.9	94.1	92.8	93.7	93.7	94.1	97.7	101.3	105.3	111.3	118.6
80°	68.3	68.7	67.5	67.1	69.1	69.9	72.7	75.6	78.4	85.2	90.4
82.5°	45.0	45.8	45.4	46.2	47.0	47.0	50.2	53.1	55.5	60.3	64.3
85°	25.7	26.1	26.1	27.3	28.1	27.7	30.5	32.2	33.4	37.0	39.4
87.5°	11.3	11.7	12.1	12.1	12.1	13.7	14.1	14.9	15.3	16.1	17.3
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: P243687

CATALOG NUMBER: S125DRP-H850D935-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	991.2	991.2	991.2	991.2
2.5°	936.1	935.7	937.7	938.9
5°	881.4	880.2	878.6	879.4
7.5°	832.8	829.6	828.8	828.8
10°	789.8	786.6	785.8	784.6
12.5°	753.2	748.4	746.4	744.4
15°	718.7	717.9	713.4	709.0
17.5°	686.9	688.1	683.7	681.7
20°	660.4	656.8	655.2	654.3
22.5°	633.4	630.6	630.6	627.8
25°	609.3	606.9	607.3	604.5
27.5°	586.8	586.4	586.0	585.2
30°	565.9	564.3	562.7	563.5
32.5°	545.8	543.4	542.2	541.8
35°	524.9	524.1	522.5	521.7
37.5°	504.4	504.8	502.8	502.4
40°	482.3	481.9	481.5	480.7
42.5°	459.0	457.8	458.6	458.2
45°	435.7	434.5	435.3	434.1
47.5°	412.8	413.6	413.6	414.0
50°	390.3	391.9	391.9	393.1
52.5°	369.4	372.6	372.6	372.2
55°	346.9	350.5	351.7	352.1
57.5°	325.6	329.2	332.8	333.6
60°	302.7	309.1	312.7	313.5
62.5°	282.2	288.2	293.0	293.4
65°	259.2	266.5	270.9	272.5
67.5°	235.9	241.6	247.6	250.0
70°	209.4	216.2	220.3	221.9
72.5°	181.7	189.3	194.5	195.3
75°	155.1	160.8	164.8	165.6
77.5°	125.0	130.6	134.2	135.0
80°	94.9	99.7	102.1	103.7
82.5°	67.1	70.3	71.5	73.2
85°	41.4	43.8	44.2	44.2
87.5°	18.1	18.5	18.5	19.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243687  
 CATALOG NUMBER: S125DRP-H850D935-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	17.62	19.19	17.98	19.50	19.82	17.36	18.93	17.73	19.24	19.56
	3H	18.97	20.39	19.35	20.71	21.07	18.79	20.20	19.16	20.53	20.89
	4H	19.45	20.78	19.85	21.13	21.50	19.27	20.60	19.67	20.95	21.32
	6H	19.76	20.99	20.17	21.35	21.74	19.59	20.82	20.00	21.18	21.57
	8H	19.84	21.01	20.26	21.40	21.80	19.67	20.84	20.09	21.23	21.63
	12H	19.87	20.99	20.30	21.37	21.80	19.71	20.83	20.14	21.21	21.64
4H	2H	19.01	20.33	19.40	20.68	21.06	18.42	19.75	18.82	20.10	20.48
	3H	20.37	21.47	20.78	21.87	22.27	20.08	21.19	20.49	21.58	21.98
	4H	20.87	21.87	21.30	22.28	22.72	20.64	21.64	21.07	22.05	22.49
	6H	21.22	22.09	21.68	22.53	22.99	21.02	21.89	21.47	22.33	22.79
	8H	21.31	22.12	21.77	22.57	23.03	21.11	21.92	21.57	22.37	22.83
	12H	21.36	22.09	21.84	22.57	23.04	21.17	21.90	21.65	22.37	22.84
8H	4H	21.32	22.14	21.79	22.58	23.05	20.99	21.80	21.45	22.25	22.71
	6H	21.75	22.43	22.25	22.92	23.39	21.49	22.17	21.99	22.66	23.13
	8H	21.88	22.48	22.39	22.99	23.48	21.64	22.24	22.15	22.75	23.24
	12H	21.97	22.50	22.48	22.99	23.55	21.74	22.27	22.25	22.76	23.33
12H	4H	21.37	22.09	21.85	22.57	23.04	21.01	21.74	21.49	22.22	22.69
	6H	21.82	22.43	22.34	22.94	23.42	21.54	22.15	22.05	22.65	23.14
	8H	22.00	22.53	22.51	23.02	23.59	21.75	22.28	22.25	22.77	23.33