

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: P243785

Luminaire Tested: S125RDRP-H850D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243785
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-H850D930-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

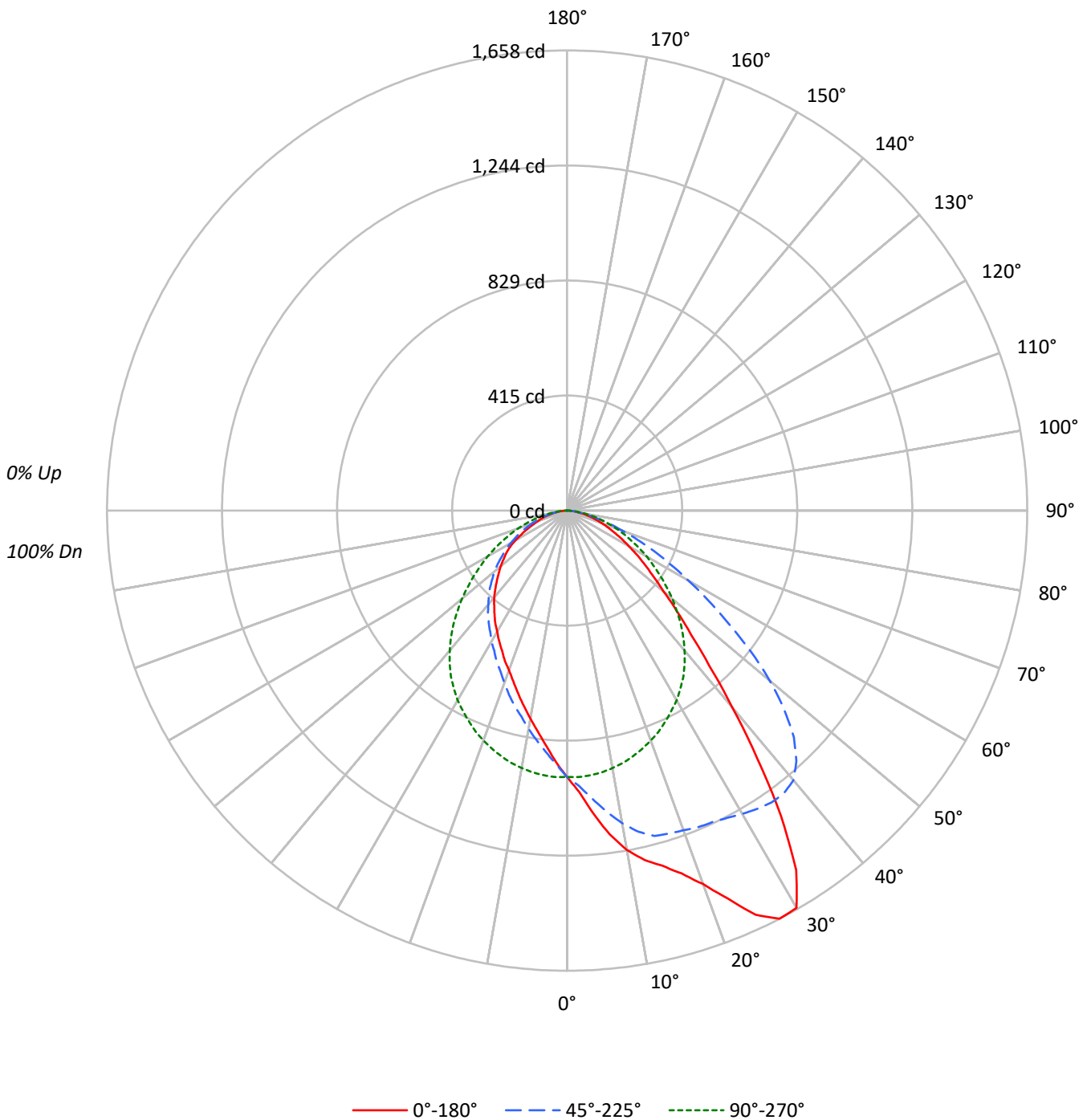
Lumens per Lamp: N/A
Luminaire Lumens: 2554.6 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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°	6822	6822	6822	6822	6822
5°	7832	7440	6832	6229	6077
10°	8960	8254	6798	5766	5494
15°	9746	8930	6744	5368	5024
20°	10829	9272	6667	4997	4629
25°	12601	9712	6572	4710	4358
30°	13568	10355	6475	4467	4135
35°	11657	11139	6330	4273	3956
40°	8588	11769	6102	4100	3793
45°	6342	11610	5819	3948	3596
50°	5024	10537	5471	3784	3451
55°	4244	8795	5069	3551	3320
60°	3657	7184	4697	3332	3073
65°	3175	5799	4275	3059	2676
70°	2785	4405	3915	2768	2342
75°	2362	3207	3427	2447	2216
80°	1838	2321	2865	2149	1838
85°	1615	1704	2300	1835	1680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11610 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.6
10°-20°	273.3	10.7
20°-30°	436.0	17.1
30°-40°	529.4	20.7
40°-50°	477.0	18.7
50°-60°	366.8	14.4
60°-70°	238.0	9.3
70°-80°	114.5	4.5
80°-90°	27.1	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°	801.7	31.4
0°-40°	1331.1	52.1
0°-60°	2174.9	85.1
0°-90°	2554.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2554.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	960	960	960	960	960	
5°	1098	1043	958	873	852	109
15°	1324	1214	916	730	683	380
25°	1607	1238	838	601	556	735
35°	1344	1284	730	492	456	822
45°	631	1155	579	393	358	501
55°	342	710	409	287	268	310
65°	189	345	254	182	159	189
75°	86	117	125	89	81	93
85°	20	21	28	22	21	22
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°	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9
2.5°	1015.4	1019.2	1016.2	1018.1	1015.1	1013.5	1009.7	1004.0	998.3	993.0	992.6
5°	1097.7	1096.9	1093.8	1089.7	1086.6	1079.0	1075.2	1062.3	1053.5	1042.8	1037.5
7.5°	1176.1	1174.2	1169.6	1163.9	1161.2	1151.3	1140.7	1124.3	1110.6	1093.8	1081.3
10°	1241.5	1241.1	1237.7	1233.9	1223.6	1212.6	1202.3	1185.2	1164.6	1143.7	1126.2
12.5°	1289.5	1287.6	1283.4	1276.9	1268.5	1260.9	1247.2	1231.6	1206.5	1185.2	1161.2
15°	1324.5	1323.7	1317.6	1315.4	1299.0	1288.3	1270.1	1254.5	1235.0	1213.7	1187.9
17.5°	1370.9	1372.4	1367.1	1354.2	1339.3	1323.0	1297.1	1271.6	1244.6	1219.8	1198.9
20°	1431.8	1428.0	1418.9	1403.3	1376.6	1356.5	1330.6	1299.0	1262.5	1225.9	1195.8
22.5°	1513.3	1509.1	1494.6	1475.6	1442.1	1405.2	1365.6	1318.4	1276.5	1234.7	1195.1
25°	1606.9	1598.9	1577.6	1557.0	1509.5	1470.3	1411.3	1354.9	1294.0	1238.5	1193.9
27.5°	1657.9	1657.9	1648.0	1625.5	1587.9	1530.0	1469.9	1394.9	1324.5	1248.4	1185.2
30°	1653.3	1650.7	1654.5	1645.0	1620.6	1577.2	1517.5	1438.7	1348.8	1261.7	1186.0
32.5°	1535.3	1536.5	1559.3	1574.9	1587.1	1576.4	1537.6	1466.5	1377.0	1274.6	1182.9
35°	1343.5	1346.6	1386.9	1413.5	1468.0	1499.2	1508.3	1469.9	1389.6	1283.8	1177.6
37.5°	1124.3	1124.3	1171.1	1211.5	1272.3	1349.2	1406.7	1421.2	1382.0	1283.4	1173.0
40°	925.6	924.5	961.4	1010.9	1076.0	1160.8	1246.5	1319.9	1329.4	1268.5	1157.0
42.5°	757.4	755.5	795.8	823.2	891.7	967.5	1081.3	1185.2	1244.6	1222.5	1133.4
45°	631.0	629.5	655.8	687.0	735.3	814.1	909.6	1025.0	1124.7	1155.1	1089.3
47.5°	535.9	536.6	550.7	577.0	618.1	674.4	760.1	867.0	990.3	1060.7	1033.7
50°	454.4	457.1	467.8	487.5	517.6	562.9	636.4	733.0	859.8	953.0	958.7
52.5°	393.5	397.3	408.8	419.4	444.5	476.5	533.6	617.3	722.0	833.9	873.9
55°	342.5	344.4	350.9	362.3	381.0	407.6	449.1	513.0	610.1	709.8	780.2
57.5°	299.9	299.9	304.1	312.1	326.9	350.9	378.7	431.6	513.4	603.6	678.6
60°	257.3	258.8	261.9	270.6	280.5	298.8	325.8	359.3	430.1	505.4	586.1
62.5°	221.5	224.2	227.2	231.4	240.5	253.5	272.5	303.3	350.9	420.6	492.5
65°	188.8	191.4	191.8	196.8	202.9	213.5	228.0	250.4	290.0	344.8	404.2
67.5°	159.9	161.0	162.1	165.9	171.7	178.5	188.0	204.8	236.0	272.9	330.7
70°	134.0	134.7	135.1	139.3	142.0	148.1	153.0	163.7	183.4	212.0	256.9
72.5°	109.6	108.5	108.1	111.5	112.7	117.6	123.7	131.3	142.0	162.1	195.6
75°	86.0	86.4	86.8	88.7	89.1	91.3	95.2	100.1	105.0	116.8	138.2
77.5°	66.2	64.7	64.7	67.0	67.7	68.1	70.8	73.5	76.1	83.0	91.3
80°	44.9	45.7	45.7	45.7	46.1	46.8	48.3	50.6	52.5	56.7	58.2
82.5°	32.0	32.0	31.6	32.4	32.7	33.1	33.1	33.1	34.3	35.4	36.9
85°	19.8	20.2	19.0	19.8	20.2	20.2	20.2	20.2	21.3	20.9	21.3
87.5°	8.4	8.8	8.8	9.1	9.1	9.5	9.1	9.5	9.1	9.1	9.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9
2.5°	991.5	986.9	984.6	980.0	974.0	970.2	966.3	961.0	956.8	950.4	944.6
5°	1028.0	1018.9	1010.5	999.1	988.0	978.5	968.6	957.6	947.7	936.7	924.9
7.5°	1068.7	1054.3	1036.8	1016.6	999.5	984.6	967.9	951.5	936.7	919.1	903.2
10°	1107.9	1084.7	1061.5	1034.5	1009.4	987.3	964.8	942.0	922.6	900.9	881.1
12.5°	1138.4	1116.3	1081.7	1048.2	1015.4	986.9	958.7	930.9	905.4	881.5	857.9
15°	1165.0	1128.5	1099.2	1062.6	1022.7	983.9	948.8	916.5	885.7	857.5	833.5
17.5°	1172.6	1139.9	1107.9	1065.3	1022.3	978.1	937.8	899.4	865.1	833.9	806.9
20°	1171.9	1138.8	1104.1	1063.4	1017.7	969.4	924.5	881.5	842.6	806.9	777.9
22.5°	1160.5	1128.5	1093.5	1052.4	1005.9	956.1	908.9	861.3	819.1	781.8	752.1
25°	1148.3	1107.9	1071.4	1029.9	985.8	939.7	889.5	838.1	793.9	755.1	721.6
27.5°	1137.6	1089.3	1044.4	1003.6	958.4	916.9	867.0	813.3	768.1	727.3	692.7
30°	1120.5	1069.5	1015.1	970.5	926.8	883.4	837.7	789.0	739.5	698.0	663.4
32.5°	1105.6	1041.3	982.3	932.1	888.3	850.3	806.5	759.7	711.3	671.8	634.5
35°	1089.3	1012.4	950.7	891.7	848.0	806.5	771.9	729.6	681.7	639.8	606.3
37.5°	1069.9	982.7	911.9	851.8	806.5	763.9	732.7	695.0	651.6	610.1	577.0
40°	1048.2	952.3	870.8	808.8	760.1	717.4	691.2	657.7	620.8	579.7	548.8
42.5°	1020.8	919.9	833.5	765.8	711.7	673.3	647.0	619.2	585.4	549.6	516.1
45°	986.1	879.6	789.0	717.4	664.1	626.8	599.4	578.9	551.9	518.4	486.8
47.5°	943.9	837.3	743.3	669.1	617.7	581.9	556.4	535.9	515.3	486.4	456.3
50°	887.9	789.0	698.8	623.0	568.6	534.0	511.1	494.8	476.1	452.5	425.1
52.5°	826.3	734.6	646.3	575.5	522.9	488.3	464.7	451.0	436.9	417.5	393.9
55°	754.7	680.1	596.0	526.8	475.4	441.1	422.5	409.1	397.3	382.5	362.7
57.5°	679.0	613.5	540.5	476.5	428.2	395.8	379.5	368.4	358.5	347.9	331.5
60°	599.4	553.0	483.7	425.1	382.9	356.2	340.6	330.4	321.2	312.5	300.3
62.5°	516.5	478.0	426.3	376.4	338.7	313.6	302.2	293.4	283.9	276.3	267.6
65°	432.4	410.3	374.5	327.7	293.1	272.5	261.5	254.2	249.7	240.9	234.1
67.5°	355.9	343.7	313.2	281.6	255.0	236.4	226.1	220.7	215.8	211.6	204.0
70°	283.2	274.4	256.9	234.4	213.5	197.5	189.9	188.4	181.5	177.4	173.6
72.5°	215.8	213.5	199.1	189.2	177.4	164.8	159.1	156.0	151.5	147.7	146.2
75°	153.4	156.8	152.2	147.3	141.6	131.3	126.4	124.8	120.7	119.5	117.6
77.5°	104.7	109.6	111.1	108.9	106.2	102.8	99.3	97.8	93.6	92.9	91.7
80°	65.8	73.1	75.7	75.4	74.2	74.6	70.4	70.0	68.1	67.0	68.1
82.5°	40.0	43.8	48.7	49.9	48.3	49.1	48.0	46.4	46.4	47.2	45.7
85°	21.7	22.1	24.4	25.9	27.8	29.3	27.8	28.2	27.8	27.8	26.6
87.5°	9.5	9.9	9.9	9.5	10.3	11.0	12.6	13.3	12.9	11.8	10.3
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°	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9
2.5°	940.1	937.4	932.9	929.0	920.3	914.2	913.4	913.8	913.1	912.3	911.9
5°	917.2	908.5	900.1	892.9	883.0	873.1	868.5	866.6	865.9	861.7	864.0
7.5°	892.9	879.6	869.7	856.0	844.2	835.8	827.8	824.0	823.2	817.5	816.0
10°	867.0	851.0	836.2	822.5	810.7	798.9	789.4	785.9	781.4	776.8	770.0
12.5°	841.5	821.7	805.4	790.1	774.1	760.8	753.2	748.3	742.6	738.4	736.1
15°	811.1	794.3	774.1	757.8	741.4	729.6	719.3	710.2	704.9	701.4	691.9
17.5°	783.7	761.6	742.6	726.9	709.1	695.7	685.1	677.5	668.3	661.5	655.4
20°	754.3	731.5	714.0	695.4	677.1	660.7	647.4	641.3	634.8	628.4	624.9
22.5°	722.8	703.0	683.2	663.8	644.4	626.8	618.5	609.7	604.0	597.5	593.0
25°	695.4	673.7	653.9	632.2	610.9	600.6	589.2	580.4	575.8	569.4	564.4
27.5°	666.1	645.1	621.5	599.1	586.5	569.0	561.4	554.5	548.4	542.0	538.5
30°	638.6	614.3	590.7	573.2	556.8	544.3	537.0	528.7	520.3	517.2	512.7
32.5°	609.7	583.5	562.9	545.4	531.7	516.5	509.6	502.8	494.8	491.0	486.8
35°	579.7	554.2	534.0	518.0	503.9	492.5	484.9	477.7	472.7	467.0	464.0
37.5°	548.1	526.0	506.6	490.6	477.7	468.5	459.0	453.3	446.4	441.1	438.8
40°	518.0	498.2	479.6	464.7	452.9	441.9	433.5	426.3	422.1	417.5	413.7
42.5°	491.0	470.4	454.4	438.8	428.2	417.5	409.1	403.8	396.6	394.7	389.4
45°	462.0	443.0	427.0	412.6	401.5	392.8	382.9	376.4	371.8	367.3	365.4
47.5°	432.7	415.2	400.4	387.1	375.7	365.8	358.1	351.3	346.3	342.2	339.9
50°	404.2	389.0	374.1	361.2	349.4	342.2	333.0	325.4	321.6	317.0	314.4
52.5°	374.1	361.6	345.6	334.5	323.5	314.0	304.9	299.9	296.1	292.3	290.4
55°	346.0	332.6	318.9	307.1	296.5	286.6	279.4	275.6	270.6	268.3	267.9
57.5°	317.0	303.3	291.9	281.3	269.1	261.5	255.0	250.4	246.2	244.3	244.3
60°	285.5	274.4	263.8	252.0	243.2	234.4	227.6	224.6	220.4	219.6	216.9
62.5°	256.5	246.2	236.0	224.9	216.9	208.2	203.2	199.1	196.8	193.7	190.7
65°	226.5	217.3	207.4	197.9	191.4	181.9	177.4	172.4	169.7	166.3	162.5
67.5°	197.5	188.8	179.6	170.9	165.6	156.4	153.4	147.3	145.4	141.6	138.2
70°	167.1	161.0	153.8	145.0	140.4	133.2	130.2	124.5	121.4	119.1	117.2
72.5°	140.8	135.1	126.7	121.0	115.3	110.8	105.8	103.1	100.5	98.6	98.2
75°	114.9	107.7	102.8	97.4	93.6	89.1	86.8	84.9	83.7	82.6	81.4
77.5°	87.9	84.9	79.9	74.6	71.6	69.6	68.1	67.4	66.2	65.8	64.7
80°	65.5	61.3	58.2	56.3	54.0	52.5	51.4	48.7	47.2	46.4	45.7
82.5°	43.4	42.2	40.0	38.1	36.2	35.8	34.6	33.9	33.5	33.5	33.1
85°	26.3	23.2	23.2	22.8	22.8	22.5	21.7	21.7	20.9	22.1	22.1
87.5°	10.7	10.7	9.9	9.9	10.3	9.5	9.1	9.1	9.1	8.8	9.1
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: P243785

CATALOG NUMBER: S125RDRP-H850D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	959.9	959.9	959.9	959.9
2.5°	911.9	910.0	910.4	908.1
5°	859.8	858.6	854.8	851.8
7.5°	812.2	807.3	806.9	803.8
10°	767.7	763.1	760.8	761.2
12.5°	728.8	723.9	723.9	720.9
15°	687.4	682.4	683.2	682.8
17.5°	653.1	649.7	647.0	644.7
20°	619.6	615.4	613.9	612.0
22.5°	588.8	585.7	586.1	586.1
25°	559.5	559.9	556.4	555.7
27.5°	533.6	532.8	532.1	530.6
30°	509.2	506.2	505.4	503.9
32.5°	484.1	483.7	480.7	481.8
35°	458.6	457.5	456.7	456.0
37.5°	435.0	432.7	432.4	431.6
40°	411.0	410.3	406.9	408.8
42.5°	385.2	383.6	383.6	383.6
45°	363.5	359.3	359.3	357.8
47.5°	339.1	337.6	336.8	334.2
50°	315.1	312.9	312.1	312.1
52.5°	290.4	290.0	290.8	289.3
55°	268.7	269.1	268.7	267.9
57.5°	245.1	243.2	243.2	243.6
60°	216.9	216.9	217.7	216.2
62.5°	189.9	189.2	186.5	185.7
65°	162.1	159.1	158.7	159.1
67.5°	137.4	136.3	134.4	134.7
70°	116.1	115.7	113.8	112.7
72.5°	97.1	97.1	95.9	95.9
75°	81.1	80.3	79.9	80.7
77.5°	62.4	60.5	61.3	60.1
80°	45.3	46.1	45.3	44.9
82.5°	33.5	32.7	33.1	32.7
85°	21.3	20.6	20.9	20.6
87.5°	8.8	9.1	9.1	8.4
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243785
 CATALOG NUMBER: S125RDRP-H850D930-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	16.59	18.13	16.96	18.45	18.76	17.29	18.83	17.66	19.14	19.46
	3H	17.68	19.06	18.05	19.38	19.75	18.77	20.15	19.14	20.48	20.84
	4H	18.03	19.33	18.43	19.68	20.06	19.29	20.59	19.69	20.94	21.31
	6H	18.25	19.45	18.66	19.81	20.21	19.65	20.85	20.06	21.21	21.60
	8H	18.31	19.45	18.73	19.84	20.24	19.75	20.89	20.17	21.28	21.68
	12H	18.34	19.43	18.77	19.82	20.25	19.81	20.90	20.24	21.28	21.71
4H	2H	18.11	19.41	18.51	19.76	20.14	18.16	19.46	18.56	19.81	20.18
	3H	19.16	20.23	19.57	20.63	21.03	19.82	20.90	20.24	21.30	21.70
	4H	19.52	20.49	19.95	20.90	21.34	20.42	21.39	20.85	21.80	22.24
	6H	19.76	20.60	20.22	21.05	21.51	20.86	21.70	21.31	22.14	22.60
	8H	19.83	20.61	20.29	21.06	21.52	20.98	21.77	21.44	22.21	22.68
	12H	19.87	20.58	20.36	21.05	21.52	21.06	21.77	21.55	22.24	22.71
8H	4H	19.88	20.67	20.34	21.11	21.58	20.58	21.36	21.04	21.80	22.27
	6H	20.17	20.82	20.67	21.31	21.79	21.10	21.75	21.59	22.24	22.71
	8H	20.27	20.85	20.78	21.36	21.85	21.27	21.86	21.79	22.37	22.85
	12H	20.35	20.87	20.86	21.36	21.92	21.41	21.93	21.92	22.42	22.98
12H	4H	19.91	20.61	20.39	21.08	21.56	20.57	21.27	21.05	21.75	22.22
	6H	20.21	20.79	20.72	21.30	21.79	21.09	21.67	21.60	22.18	22.67
	8H	20.34	20.85	20.85	21.35	21.91	21.31	21.82	21.82	22.31	22.88