

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: P243766

Luminaire Tested: S125RDRP-H1090D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243766
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-H1090D927-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

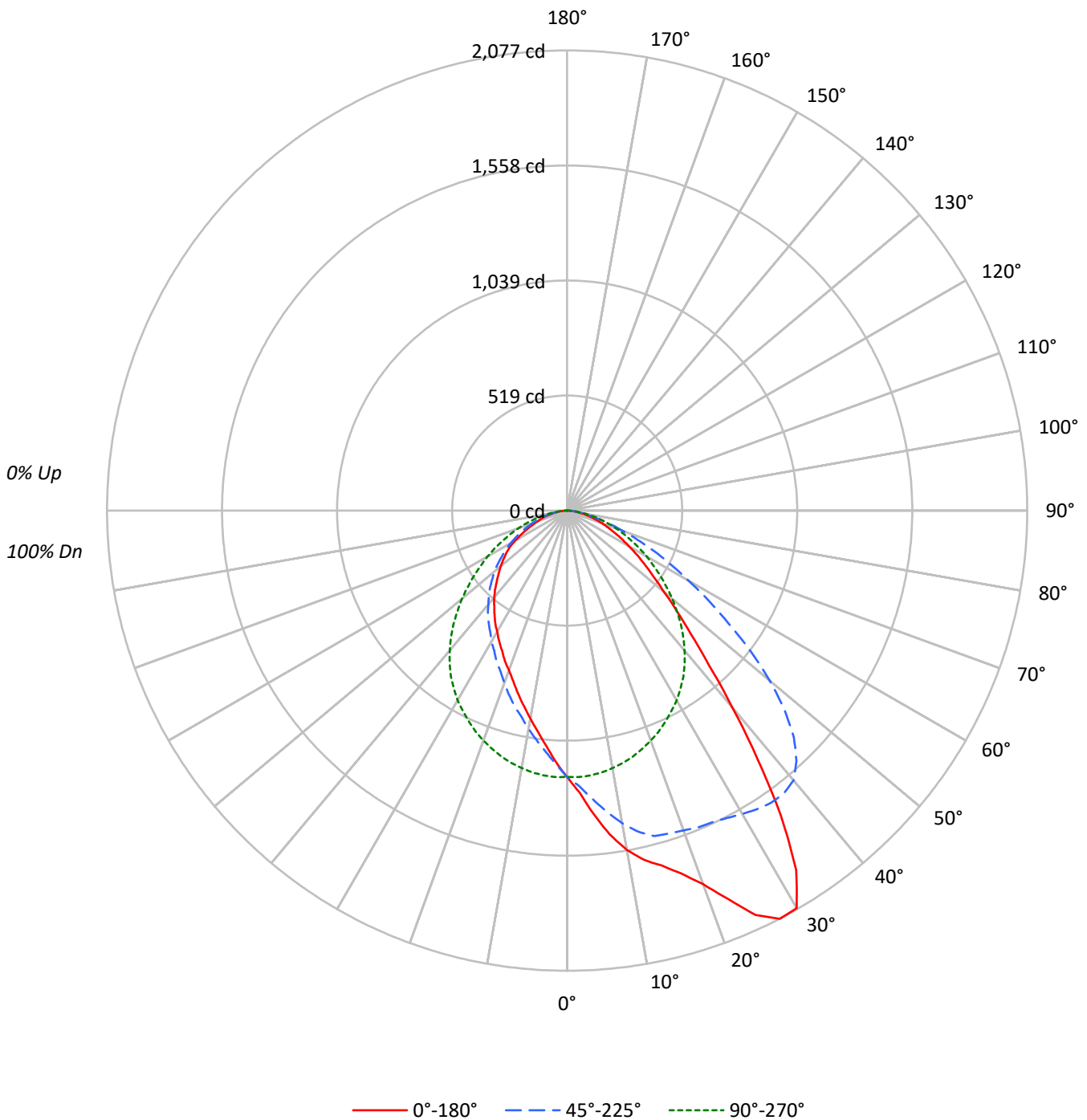
Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	8549	8549	8549	8549	8549
5°	9813	9323	8561	7805	7615
10°	11227	10343	8519	7224	6884
15°	12212	11191	8450	6727	6296
20°	13570	11618	8354	6262	5800
25°	15790	12170	8236	5902	5460
30°	17002	12975	8113	5597	5182
35°	14607	13957	7932	5354	4957
40°	10762	14748	7646	5137	4752
45°	7948	14548	7291	4947	4506
50°	6296	13204	6855	4740	4324
55°	5318	11021	6353	4450	4160
60°	4583	9002	5885	4176	3851
65°	3979	7267	5358	3834	3353
70°	3489	5519	4906	3468	2934
75°	2960	4020	4295	3065	2776
80°	2304	2910	3594	2693	2304
85°	2022	2137	2879	2291	2104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14548 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.6
10°-20°	342.5	10.7
20°-30°	546.3	17.1
30°-40°	663.3	20.7
40°-50°	597.7	18.7
50°-60°	459.6	14.4
60°-70°	298.3	9.3
70°-80°	143.5	4.5
80°-90°	34.0	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°	1004.6	31.4
0°-40°	1667.9	52.1
0°-60°	2725.3	85.1
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1203	1203	1203	1203	1203	
5°	1375	1307	1200	1094	1067	137
15°	1660	1521	1148	914	856	476
25°	2014	1552	1050	753	696	921
35°	1684	1609	914	617	571	1030
45°	791	1447	725	492	448	628
55°	429	889	513	359	336	389
65°	237	432	319	228	199	237
75°	108	146	156	112	101	116
85°	25	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°	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8
2.5°	1272.4	1277.2	1273.4	1275.7	1271.9	1270.0	1265.3	1258.1	1250.9	1244.3	1243.8
5°	1375.4	1374.5	1370.7	1365.4	1361.6	1352.1	1347.3	1331.1	1320.1	1306.7	1300.1
7.5°	1473.7	1471.3	1465.6	1458.4	1455.1	1442.7	1429.3	1408.8	1391.6	1370.7	1354.9
10°	1555.7	1555.2	1550.9	1546.2	1533.3	1519.5	1506.6	1485.1	1459.4	1433.1	1411.2
12.5°	1615.8	1613.4	1608.2	1600.1	1589.6	1580.0	1562.9	1543.3	1511.8	1485.1	1455.1
15°	1659.7	1658.7	1651.1	1648.2	1627.7	1614.4	1591.5	1571.9	1547.6	1520.9	1488.5
17.5°	1717.8	1719.8	1713.1	1696.9	1678.3	1657.8	1625.3	1593.4	1559.5	1528.5	1502.3
20°	1794.2	1789.4	1777.9	1758.4	1725.0	1699.7	1667.3	1627.7	1581.9	1536.1	1498.5
22.5°	1896.2	1891.0	1872.8	1849.0	1807.0	1760.8	1711.2	1652.0	1599.6	1547.1	1497.5
25°	2013.5	2003.5	1976.8	1951.1	1891.4	1842.3	1768.4	1697.8	1621.5	1551.9	1496.1
27.5°	2077.4	2077.4	2065.0	2036.9	1989.7	1917.2	1841.8	1747.9	1659.7	1564.3	1485.1
30°	2071.7	2068.4	2073.2	2061.2	2030.7	1976.3	1901.5	1802.7	1690.2	1581.0	1486.1
32.5°	1923.9	1925.3	1953.9	1973.5	1988.7	1975.4	1926.7	1837.6	1725.5	1597.2	1482.3
35°	1683.5	1687.3	1737.9	1771.3	1839.5	1878.6	1890.0	1841.8	1741.2	1608.6	1475.6
37.5°	1408.8	1408.8	1467.5	1518.0	1594.3	1690.7	1762.7	1780.8	1731.7	1608.2	1469.9
40°	1159.9	1158.4	1204.7	1266.7	1348.2	1454.6	1561.9	1653.9	1665.9	1589.6	1449.8
42.5°	949.1	946.7	997.2	1031.6	1117.4	1212.3	1354.9	1485.1	1559.5	1531.9	1420.3
45°	790.7	788.8	821.7	860.8	921.4	1020.1	1139.8	1284.3	1409.3	1447.4	1364.9
47.5°	671.5	672.5	690.1	723.0	774.5	845.1	952.4	1086.4	1240.9	1329.2	1295.3
50°	569.4	572.8	586.1	610.9	648.6	705.4	797.4	918.5	1077.4	1194.2	1201.3
52.5°	493.1	497.9	512.2	525.6	557.0	597.1	668.6	773.6	904.7	1044.9	1095.0
55°	429.2	431.6	439.7	454.0	477.4	510.8	562.8	642.9	764.5	889.4	977.7
57.5°	375.8	375.8	381.1	391.1	409.7	439.7	474.5	540.8	643.4	756.4	850.3
60°	322.4	324.3	328.1	339.1	351.5	374.4	408.2	450.2	538.9	633.3	734.4
62.5°	277.6	280.9	284.7	290.0	301.4	317.6	341.5	380.1	439.7	527.0	617.1
65°	236.6	239.9	240.4	246.6	254.2	267.5	285.7	313.8	363.4	432.1	506.5
67.5°	200.3	201.7	203.2	207.9	215.1	223.7	235.6	256.6	295.7	341.9	414.4
70°	167.9	168.8	169.3	174.6	177.9	185.5	191.7	205.1	229.9	265.6	321.9
72.5°	137.4	135.9	135.4	139.7	141.2	147.4	155.0	164.5	177.9	203.2	245.1
75°	107.8	108.3	108.7	111.1	111.6	114.5	119.2	125.4	131.6	146.4	173.1
77.5°	83.0	81.1	81.1	83.9	84.9	85.4	88.7	92.0	95.4	104.0	114.5
80°	56.3	57.2	57.2	57.2	57.7	58.7	60.6	63.4	65.8	71.1	73.0
82.5°	40.1	40.1	39.6	40.5	41.0	41.5	41.5	41.5	42.9	44.4	46.3
85°	24.8	25.3	23.8	24.8	25.3	25.3	25.3	25.3	26.7	26.2	26.7
87.5°	10.5	11.0	11.0	11.4	11.4	11.9	11.4	11.9	11.4	11.4	11.9
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°	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8
2.5°	1242.4	1236.6	1233.8	1228.1	1220.4	1215.7	1210.9	1204.2	1199.0	1190.9	1183.7
5°	1288.1	1276.7	1266.2	1251.9	1238.1	1226.1	1213.7	1199.9	1187.5	1173.7	1158.9
7.5°	1339.2	1321.1	1299.1	1273.8	1252.4	1233.8	1212.8	1192.3	1173.7	1151.8	1131.7
10°	1388.3	1359.2	1330.1	1296.3	1264.8	1237.1	1209.0	1180.4	1156.0	1128.9	1104.1
12.5°	1426.5	1398.8	1355.4	1313.4	1272.4	1236.6	1201.3	1166.5	1134.6	1104.5	1075.0
15°	1459.8	1414.1	1377.3	1331.5	1281.5	1232.8	1189.0	1148.4	1109.8	1074.5	1044.4
17.5°	1469.4	1428.4	1388.3	1334.9	1281.0	1225.7	1175.1	1127.0	1084.0	1044.9	1011.1
20°	1468.4	1426.9	1383.5	1332.5	1275.3	1214.7	1158.4	1104.5	1055.9	1011.1	974.8
22.5°	1454.1	1414.1	1370.2	1318.7	1260.5	1198.0	1138.9	1079.3	1026.3	979.6	942.4
25°	1438.9	1388.3	1342.5	1290.5	1235.2	1177.5	1114.6	1050.2	994.8	946.2	904.2
27.5°	1425.5	1364.9	1308.7	1257.6	1200.9	1148.9	1086.4	1019.2	962.4	911.4	868.0
30°	1404.0	1340.1	1271.9	1216.1	1161.3	1106.9	1049.7	988.6	926.6	874.7	831.3
32.5°	1385.4	1304.8	1230.9	1168.0	1113.1	1065.4	1010.6	951.9	891.4	841.8	795.0
35°	1364.9	1268.6	1191.3	1117.4	1062.6	1010.6	967.2	914.2	854.2	801.7	759.7
37.5°	1340.6	1231.4	1142.7	1067.3	1010.6	957.2	918.1	870.8	816.5	764.5	723.0
40°	1313.4	1193.2	1091.2	1013.4	952.4	899.0	866.1	824.1	777.8	726.3	687.7
42.5°	1279.1	1152.7	1044.4	959.6	891.8	843.7	810.8	775.9	733.5	688.7	646.7
45°	1235.7	1102.2	988.6	899.0	832.2	785.5	751.1	725.4	691.5	649.6	610.0
47.5°	1182.8	1049.2	931.4	838.4	774.0	729.2	697.3	671.5	645.7	609.5	571.8
50°	1112.6	988.6	875.6	780.7	712.5	669.1	640.5	620.0	596.6	567.1	532.7
52.5°	1035.4	920.4	809.8	721.1	655.3	611.9	582.3	565.1	547.5	523.2	493.6
55°	945.7	852.2	746.8	660.1	595.7	552.7	529.4	512.7	497.9	479.3	454.5
57.5°	850.8	768.8	677.2	597.1	536.5	496.0	475.5	461.7	449.3	435.9	415.4
60°	751.1	693.0	606.2	532.7	479.8	446.4	426.8	414.0	402.5	391.5	376.3
62.5°	647.2	599.0	534.1	471.7	424.5	393.0	378.7	367.7	355.8	346.2	335.3
65°	541.8	514.1	469.3	410.6	367.2	341.5	327.6	318.6	312.9	301.9	293.3
67.5°	445.9	430.7	392.5	352.9	319.5	296.2	283.3	276.6	270.4	265.2	255.6
70°	354.8	343.9	321.9	293.8	267.5	247.5	238.0	236.1	227.5	222.2	217.5
72.5°	270.4	267.5	249.4	237.0	222.2	206.5	199.4	195.5	189.8	185.0	183.1
75°	192.2	196.5	190.8	184.6	177.4	164.5	158.3	156.4	151.2	149.8	147.4
77.5°	131.2	137.4	139.3	136.4	133.1	128.8	124.5	122.6	117.3	116.4	114.9
80°	82.5	91.6	94.9	94.4	93.0	93.5	88.2	87.8	85.4	83.9	85.4
82.5°	50.1	54.8	61.0	62.5	60.6	61.5	60.1	58.2	58.2	59.1	57.2
85°	27.2	27.7	30.5	32.4	34.8	36.7	34.8	35.3	34.8	34.8	33.4
87.5°	11.9	12.4	12.4	11.9	12.9	13.8	15.7	16.7	16.2	14.8	12.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8	1202.8
2.5°	1178.0	1174.6	1168.9	1164.2	1153.2	1145.6	1144.6	1145.1	1144.1	1143.2	1142.7
5°	1149.4	1138.4	1127.9	1118.8	1106.4	1094.0	1088.3	1085.9	1085.0	1079.7	1082.6
7.5°	1118.8	1102.2	1089.8	1072.6	1057.8	1047.3	1037.3	1032.5	1031.6	1024.4	1022.5
10°	1086.4	1066.4	1047.8	1030.6	1015.8	1001.0	989.1	984.8	979.1	973.4	964.8
12.5°	1054.5	1029.7	1009.2	990.1	970.0	953.4	943.8	937.6	930.5	925.2	922.4
15°	1016.3	995.3	970.0	949.5	929.0	914.2	901.4	889.9	883.2	879.0	867.0
17.5°	982.0	954.3	930.5	910.9	888.5	871.8	858.4	848.9	837.5	828.9	821.2
20°	945.2	916.6	894.7	871.3	848.4	827.9	811.2	803.6	795.5	787.4	783.1
22.5°	905.7	880.9	856.1	831.7	807.4	785.5	775.0	764.0	756.9	748.8	743.0
25°	871.3	844.1	819.3	792.2	765.4	752.6	738.3	727.3	721.6	713.5	707.3
27.5°	834.6	808.4	778.8	750.7	734.9	713.0	703.5	694.9	687.2	679.1	674.8
30°	800.3	769.7	740.2	718.2	697.7	682.0	672.9	662.4	651.9	648.1	642.4
32.5°	764.0	731.1	705.4	683.4	666.3	647.2	638.6	630.0	620.0	615.2	610.0
35°	726.3	694.4	669.1	649.1	631.4	617.1	607.6	598.5	592.3	585.2	581.4
37.5°	686.8	659.1	634.8	614.7	598.5	587.1	575.2	568.0	559.4	552.7	549.9
40°	649.1	624.3	600.9	582.3	567.5	553.7	543.2	534.1	528.9	523.2	518.4
42.5°	615.2	589.5	569.4	549.9	536.5	523.2	512.7	506.0	496.9	494.6	487.9
45°	579.0	555.1	535.1	517.0	503.1	492.2	479.8	471.7	465.9	460.2	457.8
47.5°	542.3	520.3	501.7	485.0	470.7	458.3	448.8	440.2	434.0	428.7	425.9
50°	506.5	487.4	468.8	452.6	437.8	428.7	417.3	407.8	403.0	397.3	393.9
52.5°	468.8	453.1	433.0	419.2	405.4	393.5	382.0	375.8	371.0	366.3	363.9
55°	433.5	416.8	399.7	384.9	371.5	359.1	350.1	345.3	339.1	336.2	335.7
57.5°	397.3	380.1	365.8	352.4	337.2	327.6	319.5	313.8	308.6	306.2	306.2
60°	357.7	343.9	330.5	315.7	304.7	293.8	285.2	281.4	276.1	275.2	271.8
62.5°	321.4	308.6	295.7	281.9	271.8	260.9	254.7	249.4	246.6	242.7	238.9
65°	283.8	272.3	259.9	248.0	239.9	228.0	222.2	216.0	212.7	208.4	203.6
67.5°	247.5	236.6	225.1	214.1	207.5	196.0	192.2	184.6	182.2	177.4	173.1
70°	209.4	201.7	192.7	181.7	176.0	166.9	163.1	156.0	152.1	149.3	146.9
72.5°	176.5	169.3	158.8	151.7	144.5	138.8	132.6	129.2	125.9	123.5	123.0
75°	144.0	135.0	128.8	122.1	117.3	111.6	108.7	106.4	104.9	103.5	102.1
77.5°	110.2	106.4	100.2	93.5	89.7	87.3	85.4	84.4	83.0	82.5	81.1
80°	82.0	76.8	73.0	70.6	67.7	65.8	64.4	61.0	59.1	58.2	57.2
82.5°	54.4	52.9	50.1	47.7	45.3	44.8	43.4	42.4	42.0	42.0	41.5
85°	32.9	29.1	29.1	28.6	28.6	28.1	27.2	27.2	26.2	27.7	27.7
87.5°	13.4	13.4	12.4	12.4	12.9	11.9	11.4	11.4	11.4	11.0	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



TEST NUMBER: P243766

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1202.8	1202.8	1202.8	1202.8
2.5°	1142.7	1140.3	1140.8	1137.9
5°	1077.4	1075.9	1071.2	1067.3
7.5°	1017.7	1011.5	1011.1	1007.2
10°	961.9	956.2	953.4	953.8
12.5°	913.3	907.1	907.1	903.3
15°	861.3	855.1	856.1	855.6
17.5°	818.4	814.1	810.8	807.9
20°	776.4	771.2	769.3	766.9
22.5°	737.8	734.0	734.4	734.4
25°	701.1	701.5	697.3	696.3
27.5°	668.6	667.7	666.7	664.8
30°	638.1	634.3	633.3	631.4
32.5°	606.6	606.2	602.3	603.8
35°	574.7	573.3	572.3	571.3
37.5°	545.1	542.3	541.8	540.8
40°	515.1	514.1	509.8	512.2
42.5°	482.6	480.7	480.7	480.7
45°	455.5	450.2	450.2	448.3
47.5°	424.9	423.0	422.1	418.7
50°	394.9	392.0	391.1	391.1
52.5°	363.9	363.4	364.4	362.5
55°	336.7	337.2	336.7	335.7
57.5°	307.1	304.7	304.7	305.2
60°	271.8	271.8	272.8	270.9
62.5°	238.0	237.0	233.7	232.7
65°	203.2	199.4	198.9	199.4
67.5°	172.2	170.7	168.4	168.8
70°	145.5	145.0	142.6	141.2
72.5°	121.6	121.6	120.2	120.2
75°	101.6	100.6	100.2	101.1
77.5°	78.2	75.8	76.8	75.4
80°	56.8	57.7	56.8	56.3
82.5°	42.0	41.0	41.5	41.0
85°	26.7	25.8	26.2	25.8
87.5°	11.0	11.4	11.4	10.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243766

CATALOG NUMBER: S125RDRP-H1090D927-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	17.38	18.92	17.74	19.23	19.55	18.07	19.61	18.44	19.93	20.24
	3H	18.46	19.84	18.84	20.17	20.53	19.55	20.93	19.93	21.26	21.62
	4H	18.82	20.11	19.22	20.46	20.84	20.08	21.37	20.47	21.72	22.10
	6H	19.04	20.23	19.45	20.60	20.99	20.43	21.63	20.84	22.00	22.39
	8H	19.09	20.23	19.52	20.62	21.02	20.53	21.67	20.96	22.06	22.46
	12H	19.13	20.22	19.56	20.60	21.03	20.59	21.68	21.02	22.06	22.49
4H	2H	18.90	20.19	19.30	20.54	20.92	18.95	20.24	19.35	20.59	20.97
	3H	19.94	21.02	20.35	21.42	21.82	20.61	21.68	21.02	22.08	22.48
	4H	20.31	21.27	20.74	21.69	22.12	21.21	22.17	21.64	22.59	23.03
	6H	20.55	21.39	21.01	21.83	22.29	21.64	22.48	22.10	22.92	23.38
	8H	20.61	21.40	21.07	21.84	22.31	21.76	22.55	22.23	22.99	23.46
	12H	20.66	21.36	21.14	21.84	22.31	21.85	22.55	22.33	23.03	23.50
8H	4H	20.67	21.45	21.13	21.89	22.36	21.36	22.14	21.82	22.59	23.06
	6H	20.96	21.61	21.46	22.10	22.58	21.88	22.53	22.38	23.02	23.50
	8H	21.05	21.64	21.57	22.14	22.63	22.06	22.64	22.57	23.15	23.64
	12H	21.14	21.65	21.65	22.14	22.71	22.20	22.71	22.71	23.20	23.77
12H	4H	20.69	21.39	21.17	21.87	22.34	21.35	22.05	21.83	22.53	23.00
	6H	20.99	21.57	21.50	22.08	22.57	21.87	22.46	22.39	22.97	23.45
	8H	21.12	21.64	21.63	22.13	22.70	22.09	22.61	22.60	23.10	23.66