

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: P242588

Luminaire Tested: S123RDRP-S1165D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1165D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

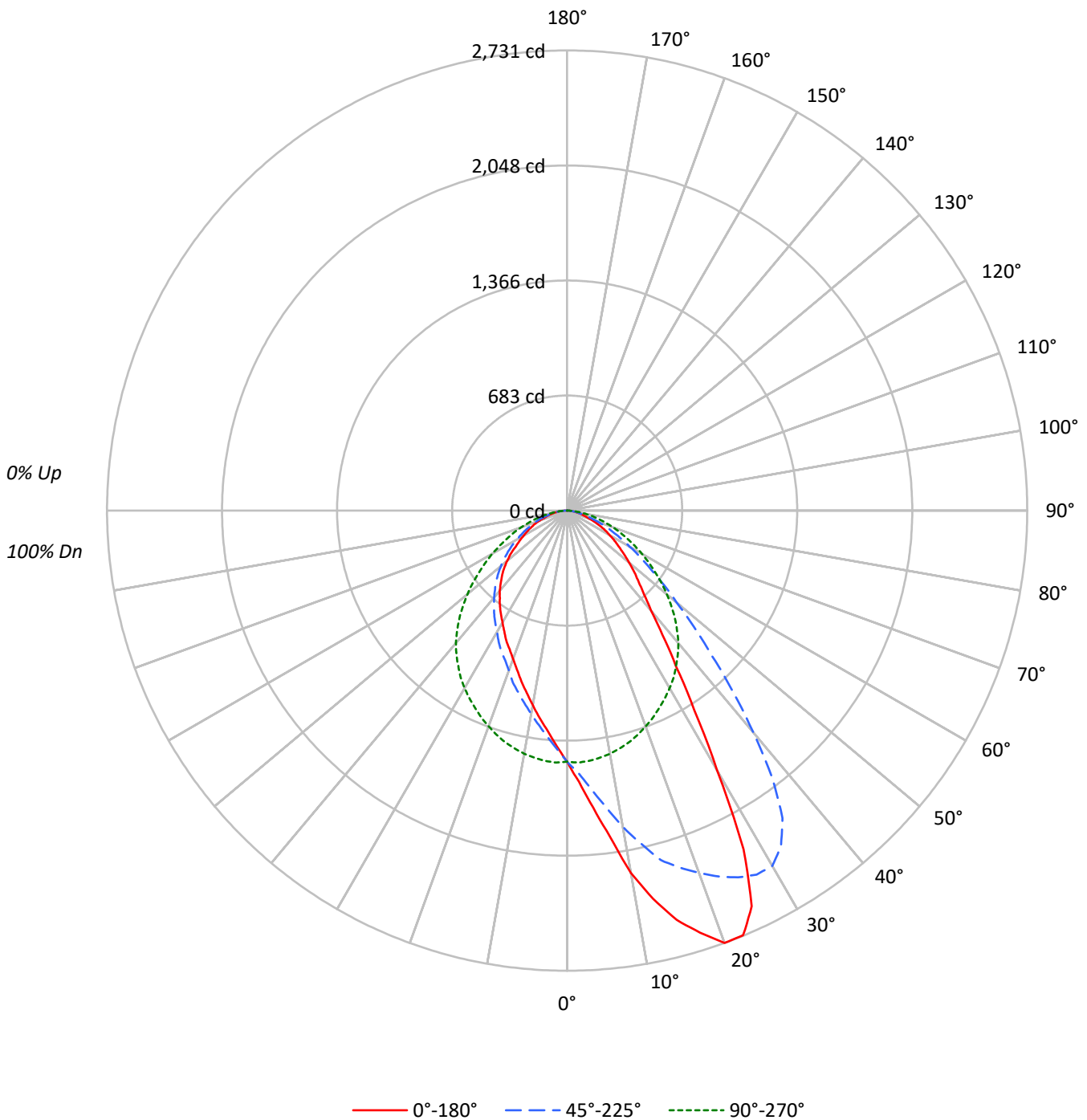
Lumens per Lamp: N/A
Luminaire Lumens: 3711.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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	100	100	100	100	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74	74	74	74	74	74	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64	64	64	64	64	64	64		
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56	56	56	56	56	56	56		
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50	50	50	50	50	50	50		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44	44	44	44	44	44	44		
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39	39	39	39	39	39	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36	36	36	36	36	36	36		
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32	32	32	32	32	32	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29	29	29	29	29	29	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18067	18067	18067	18067	18067
5°	21535	20201	18143	16381	15977
10°	26890	23466	18039	15094	14434
15°	31563	26951	17854	14036	13162
20°	35225	29513	17580	13045	12083
25°	34662	32120	17289	12357	11418
30°	24916	34078	17021	11645	10734
35°	16635	32970	16674	11160	10292
40°	12257	27178	16255	10671	9834
45°	10282	20737	15520	10215	9384
50°	9072	15991	14558	9662	8759
55°	7954	12756	13457	9087	7902
60°	7084	10410	12405	8352	7239
65°	6221	8527	11272	7704	6734
70°	4884	6851	10267	7077	6149
75°	4304	5049	8964	6393	5620
80°	3741	4321	7616	5612	5521
85°	3018	3282	6119	5674	5855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 29181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.9
10°-20°	458.2	12.3
20°-30°	721.7	19.4
30°-40°	750.5	20.2
40°-50°	642.0	17.3
50°-60°	489.3	13.2
60°-70°	313.5	8.4
70°-80°	150.2	4.0
80°-90°	39.5	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°	1326.2	35.7
0°-40°	2076.7	56.0
0°-60°	3208.1	86.4
0°-90°	3711.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3711.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1490	1490	1490	1490	1490	
5°	1770	1660	1491	1346	1313	181
15°	2515	2148	1423	1118	1049	714
25°	2592	2402	1293	924	854	1126
35°	1124	2228	1127	754	696	731
45°	600	1210	905	596	547	470
55°	376	604	637	430	374	340
65°	217	297	393	269	235	214
75°	92	108	191	136	120	98
85°	22	24	44	41	42	25
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°	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5
2.5°	1611.7	1614.3	1606.0	1604.7	1595.1	1592.6	1592.6	1579.2	1570.9	1560.0	1553.6
5°	1769.9	1780.2	1775.0	1763.6	1744.4	1740.0	1727.8	1708.7	1687.0	1660.2	1647.4
7.5°	1951.1	1972.2	1968.4	1950.5	1930.1	1917.3	1883.5	1856.1	1814.6	1777.0	1747.6
10°	2184.7	2170.0	2158.5	2141.3	2122.8	2092.8	2057.1	2007.9	1951.1	1906.5	1856.7
12.5°	2359.5	2360.1	2344.8	2327.0	2298.9	2270.8	2224.9	2162.3	2094.1	2024.5	1965.8
15°	2515.2	2519.0	2509.4	2490.9	2453.9	2403.5	2337.2	2312.3	2217.9	2147.7	2077.5
17.5°	2626.2	2626.8	2624.9	2600.0	2559.8	2525.4	2463.5	2405.4	2316.1	2221.0	2127.2
20°	2730.8	2724.5	2725.7	2697.0	2669.0	2627.5	2567.5	2472.4	2402.2	2288.0	2190.4
22.5°	2728.3	2728.3	2734.0	2728.9	2710.4	2681.1	2637.0	2560.5	2466.1	2350.6	2237.6
25°	2591.7	2586.6	2616.6	2624.9	2657.5	2663.2	2649.2	2605.1	2520.3	2401.6	2265.7
27.5°	2266.3	2247.8	2310.4	2372.3	2454.6	2506.9	2560.5	2572.6	2532.4	2435.4	2293.1
30°	1780.2	1840.1	1868.2	1969.0	2081.3	2215.3	2332.7	2444.4	2471.8	2434.8	2323.1
32.5°	1402.4	1452.8	1475.2	1558.1	1660.8	1823.5	2014.3	2184.0	2316.7	2361.4	2305.3
35°	1124.2	1124.9	1178.5	1216.8	1313.7	1475.2	1646.2	1858.0	2068.5	2228.1	2244.6
37.5°	927.7	930.3	964.7	1003.0	1080.9	1171.5	1330.3	1509.0	1762.3	2000.3	2124.1
40°	774.6	780.3	804.6	842.2	894.5	959.0	1076.4	1242.3	1445.2	1717.6	1940.3
42.5°	676.3	686.5	696.1	722.9	750.3	809.7	899.0	1017.7	1197.6	1451.6	1717.0
45°	599.8	604.9	614.4	627.8	657.2	699.3	763.1	849.2	1002.4	1209.7	1466.9
47.5°	541.1	537.9	548.7	560.2	580.0	610.6	655.3	729.9	844.8	1018.3	1241.0
50°	481.1	480.4	487.5	495.8	514.3	535.3	570.4	623.4	710.1	848.0	1047.7
52.5°	424.9	428.1	432.6	443.4	455.6	471.5	502.1	536.6	608.1	722.3	880.5
55°	376.4	378.4	385.4	391.1	400.7	417.9	437.7	469.6	520.6	603.6	740.8
57.5°	334.3	333.7	340.7	341.4	353.5	368.2	384.1	409.0	447.9	513.6	609.3
60°	292.2	290.3	296.1	300.5	306.3	317.7	330.5	354.8	384.1	429.4	508.5
62.5°	253.9	253.3	257.1	261.6	266.1	276.3	286.5	303.7	325.4	361.8	420.5
65°	216.9	218.9	220.8	222.7	225.2	231.6	241.8	254.6	270.5	297.3	342.6
67.5°	178.7	181.2	181.8	186.3	191.4	194.6	200.3	212.5	224.6	248.8	275.6
70°	137.8	137.2	137.8	139.7	146.8	153.8	162.1	170.4	177.4	193.3	215.0
72.5°	113.6	112.3	114.2	114.2	116.8	117.4	121.9	129.5	139.1	148.7	162.7
75°	91.9	91.9	91.9	91.9	94.4	95.7	97.6	99.5	102.7	107.8	119.3
77.5°	71.5	71.5	72.7	73.4	74.0	74.7	75.9	77.8	79.1	81.7	87.4
80°	53.6	54.2	53.6	54.2	54.2	55.5	56.1	58.1	58.7	61.9	63.8
82.5°	37.0	36.4	37.0	37.6	37.6	38.9	38.9	40.2	40.2	41.5	43.4
85°	21.7	20.4	21.7	21.1	22.3	21.1	21.7	23.0	23.0	23.6	26.2
87.5°	6.4	7.7	6.4	7.0	7.0	7.7	7.7	7.7	8.9	8.3	8.9
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°	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5
2.5°	1551.1	1549.2	1540.2	1530.0	1516.6	1507.7	1500.7	1496.9	1485.4	1471.3	1461.8
5°	1634.0	1614.9	1594.5	1569.6	1546.6	1523.0	1508.3	1491.1	1470.1	1446.5	1429.9
7.5°	1716.3	1683.2	1646.8	1609.2	1570.9	1537.1	1505.8	1480.3	1448.4	1415.8	1393.5
10°	1814.0	1759.1	1702.3	1644.2	1591.3	1541.5	1503.2	1465.6	1425.4	1386.5	1357.1
12.5°	1902.7	1826.1	1758.5	1683.8	1612.3	1550.5	1491.1	1445.2	1394.8	1352.7	1318.2
15°	1974.8	1900.7	1821.6	1713.2	1623.2	1547.9	1480.9	1422.8	1364.1	1313.1	1280.6
17.5°	2050.0	1937.7	1833.7	1749.5	1632.1	1540.9	1462.4	1394.8	1331.0	1278.6	1237.8
20°	2093.4	1985.6	1870.1	1754.6	1639.8	1534.5	1439.4	1362.9	1295.9	1234.6	1197.6
22.5°	2119.6	1993.9	1870.8	1744.4	1620.6	1510.3	1416.5	1330.3	1256.3	1198.9	1151.0
25°	2138.7	1993.3	1859.3	1736.8	1612.3	1493.7	1382.0	1292.7	1214.2	1152.3	1103.8
27.5°	2154.0	1985.6	1831.8	1698.5	1572.8	1452.2	1351.4	1255.7	1177.2	1112.8	1059.8
30°	2157.9	1976.0	1799.3	1651.9	1523.7	1415.2	1306.7	1216.1	1131.9	1062.3	1013.9
32.5°	2163.0	1952.4	1755.3	1596.4	1464.3	1357.1	1261.4	1175.9	1089.1	1020.9	971.1
35°	2145.1	1946.7	1710.6	1530.7	1399.2	1295.2	1206.5	1126.8	1041.9	975.6	925.2
37.5°	2090.9	1915.4	1665.9	1457.3	1321.4	1225.7	1151.7	1078.9	1000.5	927.7	881.1
40°	1999.6	1864.4	1612.3	1391.6	1248.0	1149.1	1084.0	1027.3	952.0	885.0	833.9
42.5°	1863.7	1794.8	1561.3	1322.7	1165.1	1070.6	1018.3	966.0	902.2	833.9	786.7
45°	1691.5	1702.3	1487.9	1248.7	1089.8	994.1	942.4	905.4	846.7	790.5	741.4
47.5°	1482.2	1572.8	1409.4	1170.8	1008.1	918.1	872.8	839.0	798.2	740.1	694.8
50°	1278.0	1422.8	1311.2	1092.3	932.2	842.9	798.2	772.0	737.6	694.2	651.4
52.5°	1089.8	1248.0	1192.5	1004.9	849.9	770.1	726.7	706.3	680.8	640.6	603.0
55°	919.4	1077.0	1061.7	916.9	767.6	694.2	661.0	636.8	618.3	587.6	557.0
57.5°	771.4	923.9	927.1	819.3	696.1	621.5	592.7	573.6	560.8	536.6	506.6
60°	632.9	770.1	796.9	720.4	618.3	554.5	526.4	511.7	502.1	483.6	461.9
62.5°	518.1	629.8	661.0	611.2	543.6	484.9	464.5	450.5	444.7	429.4	410.9
65°	414.1	511.1	540.4	509.8	470.9	423.0	405.2	393.0	387.3	378.4	364.3
67.5°	326.7	402.0	433.9	408.4	393.7	359.9	347.7	340.7	335.6	329.2	317.1
70°	250.1	302.4	335.6	329.9	318.4	302.4	294.1	289.7	284.6	279.5	269.3
72.5°	188.9	220.8	251.4	256.5	247.6	247.6	240.5	239.3	236.7	230.3	225.9
75°	133.4	158.2	179.9	188.2	192.1	195.2	192.1	191.4	190.8	185.7	182.5
77.5°	92.5	108.5	123.1	137.8	142.9	147.4	148.0	150.6	148.7	145.5	144.2
80°	67.0	70.2	79.8	91.9	101.4	105.3	107.8	109.1	108.5	107.8	105.3
82.5°	44.0	46.6	49.8	57.4	65.1	72.1	73.4	72.7	74.7	75.3	73.4
85°	26.2	26.8	28.1	29.4	33.8	40.8	42.7	44.0	45.3	45.3	41.5
87.5°	10.2	9.6	10.8	10.8	12.8	13.4	17.2	20.4	21.1	18.5	18.5
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°	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5	1490.5
2.5°	1458.6	1450.3	1444.5	1431.8	1423.5	1414.6	1405.6	1411.4	1410.7	1410.1	1410.1
5°	1415.8	1401.2	1387.8	1370.5	1359.7	1346.3	1336.1	1334.8	1337.3	1328.4	1323.3
7.5°	1375.6	1356.5	1337.3	1319.5	1299.7	1284.4	1274.8	1271.0	1264.0	1258.2	1253.1
10°	1332.9	1309.3	1290.8	1267.2	1245.5	1226.3	1214.2	1205.9	1201.4	1197.0	1188.7
12.5°	1288.9	1265.9	1241.0	1213.6	1193.1	1170.2	1161.9	1152.3	1142.7	1137.6	1125.5
15°	1246.1	1216.1	1191.2	1163.2	1140.2	1118.5	1105.7	1087.2	1084.7	1078.3	1066.8
17.5°	1204.6	1171.5	1135.1	1115.9	1093.0	1070.0	1049.6	1043.8	1024.7	1018.3	1007.5
20°	1153.6	1123.6	1097.4	1070.0	1032.4	1011.3	996.0	987.7	973.0	964.1	957.7
22.5°	1109.6	1078.9	1047.7	1014.5	985.1	960.9	950.7	936.7	930.3	916.9	909.9
25°	1068.1	1034.9	998.5	964.1	941.8	923.9	906.0	894.5	883.1	877.3	864.6
27.5°	1017.7	984.5	949.4	922.6	897.1	879.2	862.0	852.4	837.8	828.2	821.2
30°	977.5	936.7	907.3	883.7	848.6	832.0	819.9	807.1	796.9	786.7	779.7
32.5°	930.9	894.5	867.1	836.5	811.6	793.1	776.5	765.7	757.4	747.8	740.8
35°	881.8	850.5	821.8	792.5	772.7	754.2	735.7	726.1	717.8	708.9	702.5
37.5°	837.1	807.8	781.0	752.9	728.6	712.7	697.4	691.0	679.5	673.1	666.8
40°	796.3	767.6	738.2	711.4	685.9	674.4	661.0	650.2	640.0	635.5	628.5
42.5°	751.6	722.9	699.3	669.9	650.2	633.6	621.5	609.3	602.3	595.3	592.1
45°	707.6	682.1	657.8	629.1	609.3	595.9	581.9	571.1	564.0	559.6	552.5
47.5°	665.5	639.3	615.1	589.6	570.4	555.1	540.4	533.4	523.8	518.7	513.6
50°	618.9	595.9	569.8	546.8	527.7	512.4	500.9	491.3	483.0	476.0	472.8
52.5°	576.2	551.3	529.6	508.5	488.1	470.2	460.0	449.8	444.1	435.8	432.0
55°	528.3	504.7	485.6	464.5	444.7	430.0	417.3	408.4	402.0	393.0	387.9
57.5°	484.3	463.9	440.3	421.7	400.7	389.2	378.4	365.6	357.9	350.9	345.8
60°	439.6	415.4	395.6	378.4	360.5	344.5	335.0	325.4	317.1	310.1	305.6
62.5°	393.0	372.6	354.1	335.0	319.0	305.6	294.1	286.5	279.5	275.6	271.2
65°	345.2	328.6	309.5	294.1	278.8	268.6	259.7	252.7	247.6	244.4	240.5
67.5°	301.2	285.2	268.0	252.0	241.8	233.5	227.1	220.8	218.2	214.4	211.8
70°	258.4	241.8	227.1	215.7	205.5	199.7	195.9	191.4	188.9	183.8	181.2
72.5°	211.8	201.0	191.4	182.5	174.8	169.7	164.6	158.9	154.4	148.7	146.1
75°	174.2	163.3	155.0	148.7	143.6	136.5	129.5	123.8	121.9	120.0	119.3
77.5°	135.9	128.9	122.5	117.4	110.4	104.0	102.1	100.8	100.2	98.9	98.9
80°	101.4	95.1	90.6	84.2	80.4	80.4	80.4	79.1	79.8	79.8	79.8
82.5°	68.9	63.2	61.3	60.0	60.0	60.6	60.6	61.3	60.6	61.9	61.3
85°	38.9	39.6	40.8	40.2	40.8	40.8	42.1	41.5	42.1	40.8	42.1
87.5°	17.9	19.8	20.4	21.1	21.7	21.1	21.7	21.7	22.3	22.3	22.3
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: P242588

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1490.5	1490.5	1490.5	1490.5
2.5°	1402.4	1401.8	1402.4	1399.9
5°	1321.4	1320.8	1318.8	1313.1
7.5°	1248.0	1246.7	1241.6	1242.9
10°	1184.2	1184.9	1177.2	1172.7
12.5°	1122.3	1118.5	1112.8	1107.6
15°	1069.4	1063.0	1047.7	1048.9
17.5°	1003.6	998.5	997.9	989.0
20°	947.5	944.3	945.6	936.7
22.5°	903.5	900.3	893.3	892.0
25°	860.7	855.6	850.5	853.7
27.5°	817.3	813.5	807.8	807.8
30°	776.5	772.7	770.1	766.9
32.5°	735.0	735.0	729.9	729.9
35°	699.9	696.1	694.8	695.5
37.5°	666.1	661.0	658.5	655.9
40°	629.1	624.0	622.7	621.5
42.5°	587.6	586.4	585.7	583.2
45°	550.6	550.0	546.2	547.4
47.5°	511.1	507.9	506.0	507.9
50°	470.2	469.0	463.2	464.5
52.5°	429.4	423.7	422.4	421.1
55°	383.5	377.7	375.2	373.9
57.5°	338.2	336.3	333.7	335.6
60°	299.2	299.2	299.2	298.6
62.5°	269.3	267.3	266.7	268.0
65°	238.6	238.0	235.4	234.8
67.5°	210.6	208.0	208.0	206.7
70°	178.0	176.7	172.9	173.5
72.5°	142.9	141.6	141.6	140.4
75°	118.7	118.0	117.4	120.0
77.5°	98.9	98.9	99.5	98.3
80°	79.8	79.8	79.1	79.1
82.5°	60.0	60.6	61.3	60.0
85°	42.1	41.5	42.7	42.1
87.5°	23.6	22.3	22.3	23.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242588
 CATALOG NUMBER: S123RDRP-S1165D935-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	17.69	19.19	18.06	19.50	19.82	21.09	22.58	21.46	22.90	23.21
	3H	18.79	20.12	19.16	20.45	20.81	22.50	23.84	22.88	24.16	24.53
	4H	19.12	20.37	19.52	20.72	21.10	23.00	24.25	23.40	24.60	24.98
	6H	19.37	20.52	19.78	20.89	21.28	23.35	24.51	23.76	24.87	25.27
	8H	19.44	20.54	19.87	20.93	21.33	23.45	24.55	23.88	24.94	25.34
	12H	19.47	20.53	19.91	20.91	21.34	23.51	24.57	23.94	24.95	25.38
4H	2H	18.67	19.92	19.07	20.27	20.65	21.33	22.58	21.73	22.93	23.31
	3H	19.84	20.88	20.25	21.28	21.68	23.02	24.06	23.43	24.46	24.86
	4H	20.23	21.16	20.66	21.58	22.02	23.63	24.57	24.07	24.98	25.42
	6H	20.54	21.35	21.00	21.79	22.25	24.10	24.91	24.56	25.35	25.81
	8H	20.63	21.39	21.09	21.83	22.30	24.24	25.00	24.71	25.45	25.91
	12H	20.69	21.36	21.17	21.84	22.31	24.34	25.02	24.83	25.50	25.97
8H	4H	20.59	21.35	21.06	21.80	22.26	23.69	24.44	24.15	24.89	25.36
	6H	20.97	21.59	21.47	22.09	22.56	24.22	24.85	24.72	25.34	25.82
	8H	21.10	21.66	21.62	22.17	22.66	24.42	24.98	24.93	25.49	25.97
	12H	21.20	21.70	21.71	22.19	22.75	24.57	25.07	25.08	25.56	26.13
12H	4H	20.63	21.30	21.11	21.78	22.25	23.67	24.35	24.16	24.83	25.30
	6H	21.01	21.57	21.53	22.08	22.57	24.21	24.77	24.73	25.28	25.77
	8H	21.19	21.68	21.70	22.18	22.74	24.44	24.94	24.95	25.43	25.99