

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: P242758

Luminaire Tested: S124RDRP-S795D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D935-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

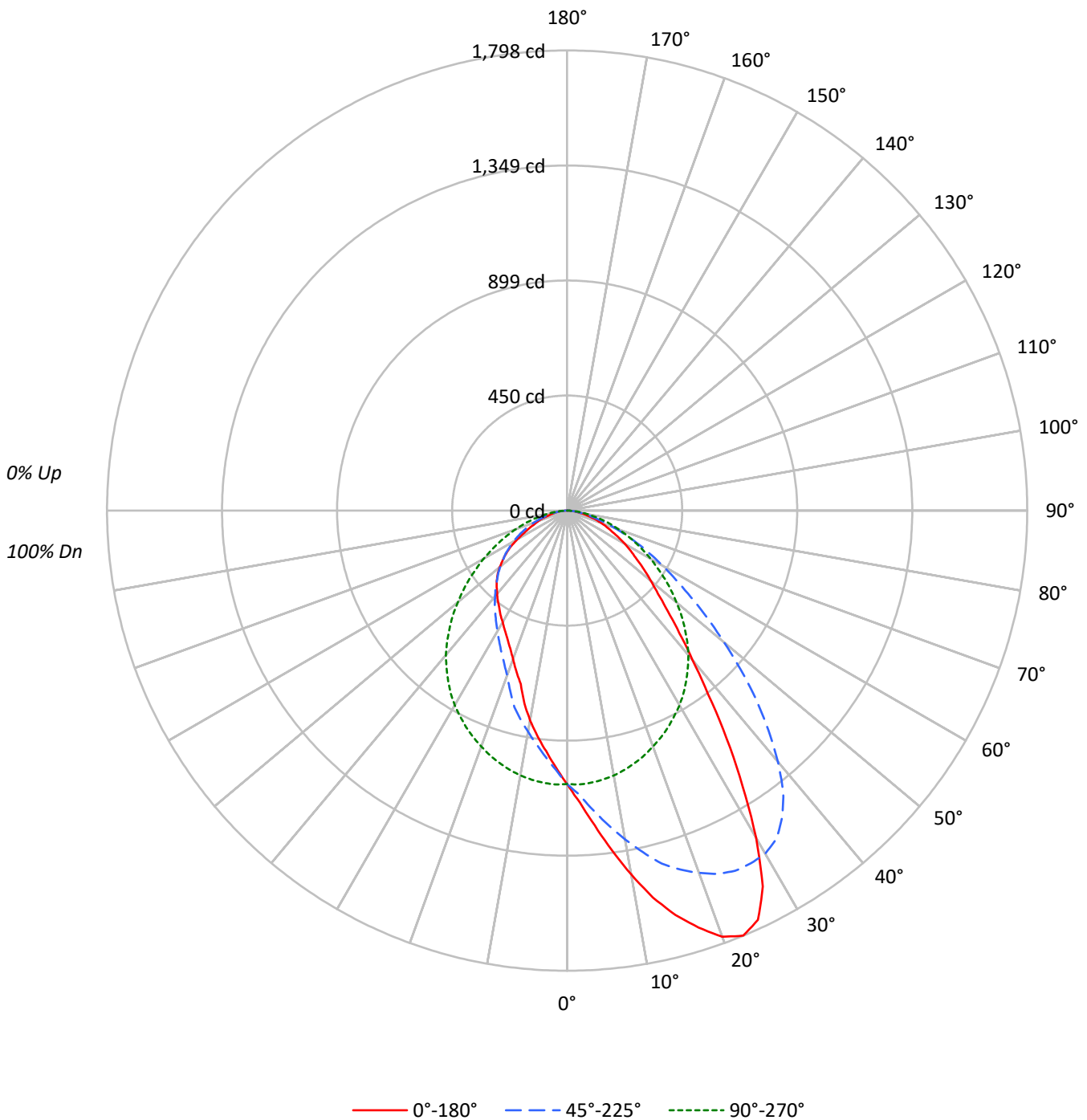
Lumens per Lamp: N/A
Luminaire Lumens: 2701.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
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	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																												
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	92	86	81	88	83	79	85	81	77	82	79	76	74																												
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63																												
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55																												
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48																												
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43																												
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38																												
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34																												
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31																												
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9498	9498	9498	9498	9498
5°	11017	10487	9526	8619	8421
10°	13033	11774	9485	7923	7515
15°	15054	13145	9397	7321	6457
20°	16761	14253	9277	6475	5839
25°	17303	15234	9159	5966	5422
30°	15148	15890	9014	5590	5170
35°	11791	15897	8802	5306	5018
40°	8842	14871	8557	5080	4935
45°	6981	13124	8166	4886	4893
50°	5894	11044	7715	4721	4750
55°	5137	9153	7219	4544	4497
60°	4622	7660	6704	4286	3980
65°	4074	6384	6148	3994	3422
70°	3670	5102	5572	3602	3088
75°	3074	3963	4939	3163	2631
80°	2600	2995	4208	2621	2467
85°	2193	2366	3294	2325	2193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 14016 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.8
10°-20°	312.4	11.6
20°-30°	489.4	18.1
30°-40°	543.5	20.1
40°-50°	481.6	17.8
50°-60°	375.3	13.9
60°-70°	245.5	9.1
70°-80°	120.5	4.5
80°-90°	29.3	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°	905.3	33.5
0°-40°	1448.8	53.6
0°-60°	2305.8	85.4
0°-90°	2701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1068	1068	1068	1068	1068	
5°	1235	1175	1068	966	944	124
15°	1636	1428	1021	796	702	465
25°	1764	1553	934	608	553	788
35°	1087	1465	811	489	462	680
45°	555	1044	650	389	389	438
55°	332	591	466	293	290	301
65°	194	304	292	190	163	195
75°	90	115	144	92	77	98
85°	22	23	32	23	22	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°	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5
2.5°	1141.7	1145.6	1141.7	1141.3	1137.0	1135.7	1133.9	1128.3	1118.0	1112.0	1113.3
5°	1234.7	1245.4	1239.4	1238.6	1229.1	1219.6	1213.6	1199.8	1185.2	1175.3	1167.1
7.5°	1338.0	1344.5	1340.2	1335.4	1319.1	1313.9	1299.7	1283.3	1258.8	1240.3	1223.5
10°	1443.9	1449.1	1447.3	1436.2	1425.0	1402.1	1389.2	1363.8	1330.7	1304.4	1279.9
12.5°	1548.1	1553.7	1535.2	1538.6	1514.9	1498.1	1475.8	1442.2	1402.6	1366.8	1334.6
15°	1635.9	1629.0	1629.0	1620.4	1596.7	1571.8	1550.7	1517.1	1468.9	1428.4	1385.8
17.5°	1708.2	1711.2	1707.8	1685.8	1668.6	1643.2	1605.3	1567.0	1525.3	1471.0	1428.8
20°	1771.9	1771.9	1768.1	1754.3	1730.2	1702.6	1660.9	1618.3	1561.4	1506.8	1457.7
22.5°	1797.8	1799.5	1794.8	1784.0	1762.9	1736.2	1702.2	1658.7	1599.7	1536.5	1472.7
25°	1764.2	1772.4	1773.2	1770.2	1763.8	1747.4	1716.8	1672.5	1620.0	1553.2	1487.8
27.5°	1655.7	1666.5	1670.8	1680.2	1697.9	1704.4	1700.5	1670.8	1620.0	1554.1	1489.1
30°	1475.8	1484.4	1512.4	1548.9	1577.4	1603.2	1625.6	1631.6	1605.8	1548.1	1478.8
32.5°	1276.0	1288.5	1316.5	1356.5	1408.6	1456.8	1514.1	1544.6	1550.2	1521.4	1458.5
35°	1086.6	1095.2	1121.0	1162.4	1219.2	1284.2	1363.8	1425.8	1468.0	1465.0	1425.8
37.5°	904.9	917.0	943.2	977.2	1033.2	1116.3	1191.6	1274.7	1350.5	1387.5	1367.7
40°	762.0	762.4	787.8	823.1	874.8	945.0	1028.9	1123.6	1210.6	1281.6	1295.4
42.5°	649.2	649.2	663.8	702.6	736.2	801.2	880.4	974.2	1079.7	1164.5	1206.7
45°	555.3	559.2	573.0	595.8	625.1	681.1	745.2	832.6	946.7	1044.0	1104.7
47.5°	481.3	488.2	496.4	517.0	541.1	580.3	635.0	716.8	811.5	919.6	1003.5
50°	426.2	427.1	438.3	448.6	468.8	498.5	545.0	610.5	695.7	798.6	894.6
52.5°	378.8	378.4	384.0	397.8	413.3	434.8	470.1	528.2	601.4	691.0	790.8
55°	331.5	333.6	338.8	349.1	361.6	378.0	407.7	452.5	511.9	590.6	680.6
57.5°	295.3	296.6	301.4	305.2	317.3	329.3	353.4	385.7	437.8	503.7	591.9
60°	260.0	260.5	261.7	268.2	277.2	288.4	303.5	329.8	372.0	430.9	497.2
62.5°	225.6	226.4	228.6	232.9	239.4	246.2	262.2	282.0	315.1	363.3	421.5
65°	193.7	194.2	197.2	198.9	204.5	211.4	223.0	237.2	261.3	303.5	348.7
67.5°	167.0	167.0	167.0	169.6	173.9	178.7	186.4	198.5	217.8	245.0	287.1
70°	141.2	141.2	142.1	143.4	145.5	149.4	153.3	161.9	175.2	196.3	226.9
72.5°	117.1	117.5	118.4	118.4	119.2	122.3	124.8	129.6	138.6	153.3	176.5
75°	89.5	90.8	93.0	94.7	96.9	96.4	99.4	102.9	105.9	115.4	129.6
77.5°	70.6	69.7	69.7	71.5	71.9	72.3	74.5	77.5	80.1	85.2	90.4
80°	50.8	50.8	52.1	52.5	52.1	52.5	54.7	56.0	56.8	58.5	63.3
82.5°	35.3	36.2	35.3	35.7	36.2	36.6	38.3	38.3	39.2	39.6	40.9
85°	21.5	22.0	22.4	21.5	21.5	21.5	22.4	22.8	23.7	23.2	24.1
87.5°	9.5	9.0	9.5	9.5	9.9	9.5	9.9	10.8	9.9	10.3	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5
2.5°	1109.0	1102.9	1099.9	1093.0	1084.9	1080.6	1076.7	1071.1	1063.8	1056.0	1050.4
5°	1156.8	1146.4	1133.5	1118.0	1104.2	1090.9	1079.3	1067.6	1054.3	1040.5	1026.7
7.5°	1204.1	1185.6	1165.8	1142.1	1119.3	1098.2	1079.3	1060.8	1039.7	1020.7	1003.1
10°	1254.1	1226.5	1195.9	1163.6	1131.4	1103.4	1075.8	1050.9	1023.3	998.8	978.1
12.5°	1294.5	1260.9	1222.6	1180.4	1140.0	1104.7	1071.9	1037.5	1005.2	978.1	948.8
15°	1340.2	1295.8	1246.3	1198.1	1147.7	1101.7	1059.0	1021.1	985.4	948.0	921.7
17.5°	1371.6	1320.3	1261.8	1205.8	1148.1	1094.8	1046.5	1002.6	961.7	924.3	893.3
20°	1399.1	1341.0	1274.3	1208.4	1141.7	1083.6	1030.6	980.7	938.1	896.7	864.4
22.5°	1414.6	1348.8	1274.3	1204.5	1134.8	1070.7	1011.2	958.7	911.4	870.0	833.5
25°	1415.5	1346.6	1272.1	1192.9	1117.2	1050.4	990.2	933.8	882.1	840.8	802.9
27.5°	1412.0	1332.4	1257.5	1177.0	1099.1	1028.0	965.6	905.8	854.5	810.6	771.9
30°	1401.7	1314.8	1233.0	1148.6	1069.4	1001.8	935.0	878.2	824.4	778.3	739.2
32.5°	1379.3	1293.2	1203.7	1116.7	1036.2	966.0	903.6	846.4	793.8	746.5	704.3
35°	1348.3	1260.9	1165.4	1076.7	997.9	925.6	866.2	811.1	760.7	710.3	666.4
37.5°	1312.6	1221.3	1127.1	1029.8	951.4	882.5	827.0	774.0	725.0	678.9	630.3
40°	1257.5	1176.1	1078.0	981.5	900.6	834.7	784.4	737.4	687.9	642.3	593.7
42.5°	1190.8	1124.5	1025.0	928.2	848.5	785.7	739.6	694.0	650.1	606.1	554.9
45°	1115.0	1062.5	969.5	876.5	796.0	733.1	690.1	649.6	610.0	567.8	520.0
47.5°	1030.6	991.9	910.9	813.6	738.3	680.6	639.3	605.7	570.8	528.2	485.2
50°	941.9	919.1	841.6	754.7	683.6	631.5	588.9	557.9	529.9	489.5	452.0
52.5°	847.2	837.8	775.3	693.1	625.1	574.3	539.4	512.3	483.9	452.0	417.6
55°	750.8	757.3	701.7	629.8	565.2	522.2	489.0	465.8	441.7	413.3	386.2
57.5°	650.5	675.0	633.7	568.7	506.3	465.8	440.4	419.7	399.5	375.4	350.9
60°	562.2	582.0	560.9	505.4	452.5	415.4	392.2	377.1	356.9	335.4	317.7
62.5°	476.1	497.7	487.3	445.1	396.9	366.4	346.6	332.8	319.0	300.9	282.4
65°	406.8	420.6	414.6	383.6	348.7	321.6	302.6	292.3	278.5	264.8	248.4
67.5°	325.5	352.6	348.3	331.1	297.5	276.0	262.6	253.1	240.2	229.9	218.3
70°	256.1	280.7	280.3	266.9	250.6	230.7	222.1	214.4	203.2	193.3	184.3
72.5°	198.0	220.0	224.3	214.8	204.9	191.1	183.0	178.2	167.5	161.4	154.6
75°	146.8	163.2	167.5	167.5	162.3	154.6	147.2	143.8	136.0	130.0	125.7
77.5°	103.3	114.5	121.0	122.3	122.7	119.7	112.8	110.2	104.2	102.0	97.3
80°	68.0	74.9	82.7	85.2	87.4	86.5	83.9	82.2	76.6	74.5	72.8
82.5°	41.8	44.8	50.8	57.3	56.0	59.0	56.8	55.5	51.7	51.2	49.5
85°	24.5	25.0	25.8	29.7	31.9	32.7	33.1	32.3	31.0	31.0	28.0
87.5°	10.3	9.9	10.8	10.8	11.2	12.9	14.2	14.6	13.3	12.1	10.8
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°	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5	1068.5
2.5°	1044.4	1040.1	1034.5	1028.0	1020.3	1013.4	1010.4	1013.0	1014.3	1010.8	1010.4
5°	1017.3	1006.5	997.9	985.0	974.7	966.0	960.0	957.4	958.3	951.4	949.7
7.5°	987.1	975.5	961.3	946.7	932.9	920.8	914.4	911.4	904.1	901.0	896.3
10°	958.3	941.1	927.3	909.2	892.9	877.8	870.5	864.4	857.1	853.7	846.4
12.5°	928.6	907.9	892.4	873.5	856.7	837.8	830.9	818.4	805.9	797.7	787.8
15°	901.0	876.9	858.4	836.0	816.2	795.6	777.1	756.4	748.6	732.3	722.8
17.5°	868.3	843.4	822.7	793.8	764.1	739.2	718.5	697.0	685.4	674.2	669.4
20°	836.0	813.6	781.8	746.9	712.9	684.5	668.6	655.7	642.7	635.4	630.3
22.5°	805.5	775.3	737.0	698.7	664.7	644.0	631.1	617.8	607.9	601.0	593.7
25°	770.6	733.1	694.0	650.9	627.7	608.3	593.7	582.9	576.4	567.4	564.0
27.5°	736.6	691.4	647.0	617.8	593.7	575.1	561.8	554.1	545.4	539.4	534.7
30°	696.1	650.1	611.3	583.8	559.2	544.6	534.3	524.8	518.3	513.6	510.1
32.5°	656.1	610.0	579.0	548.9	530.8	516.6	505.4	499.0	494.2	487.8	486.0
35°	617.8	576.9	548.5	521.8	502.0	489.0	480.4	473.1	468.8	467.1	465.8
37.5°	580.3	546.3	514.9	493.4	474.8	464.9	453.7	450.3	447.3	443.4	445.1
40°	545.0	513.6	486.5	463.2	449.0	437.8	431.8	427.5	424.9	424.9	424.9
42.5°	514.4	483.9	457.6	437.4	423.2	414.1	407.3	403.8	403.4	402.9	405.5
45°	482.6	454.2	427.5	410.3	398.2	388.7	384.9	381.9	381.9	383.6	384.0
47.5°	450.7	424.0	402.5	382.7	371.5	365.5	362.1	360.3	360.3	362.5	364.2
50°	421.9	395.6	374.5	357.3	347.0	341.4	338.4	337.5	338.4	338.4	341.4
52.5°	390.5	367.6	347.0	333.2	321.2	316.0	314.7	313.4	313.8	315.6	316.4
55°	359.9	338.8	319.0	305.2	296.6	293.2	289.3	289.7	288.9	289.7	289.7
57.5°	328.9	310.4	291.0	279.8	272.5	267.3	263.0	264.3	263.0	263.0	262.6
60°	299.2	278.5	263.9	254.0	245.4	241.1	237.2	238.1	236.8	235.9	234.2
62.5°	266.9	250.6	236.8	227.3	220.8	215.7	211.8	210.5	207.1	203.6	199.3
65°	235.9	221.7	209.2	200.2	193.7	189.9	186.8	184.3	177.8	170.9	167.5
67.5°	205.3	195.0	183.0	175.2	170.0	164.9	159.3	154.6	148.1	143.8	141.6
70°	176.1	166.2	156.3	149.0	143.4	138.6	132.2	129.2	124.8	123.1	121.0
72.5°	148.1	139.1	130.0	123.6	117.5	114.1	109.3	106.3	105.0	104.6	102.5
75°	119.7	112.4	105.5	99.4	94.7	92.1	90.0	87.8	87.0	83.1	80.9
77.5°	92.1	87.0	82.7	77.9	74.9	73.2	68.4	65.4	63.7	61.6	61.1
80°	68.0	64.6	60.3	57.7	53.0	51.2	49.5	49.1	48.6	48.2	47.8
82.5°	46.9	43.5	39.2	37.9	37.5	36.6	35.7	35.3	34.9	35.3	35.3
85°	25.8	24.1	24.1	23.7	23.2	22.8	22.4	22.4	22.0	22.4	22.0
87.5°	10.8	10.3	10.3	9.5	9.9	9.9	9.5	9.5	9.9	9.0	9.0
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: P242758

CATALOG NUMBER: S124RDRP-S795D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1068.5	1068.5	1068.5	1068.5
2.5°	1007.8	1008.7	1005.7	1004.8
5°	946.2	945.4	943.2	943.7
7.5°	892.9	889.8	892.0	888.6
10°	844.6	839.9	836.0	832.6
12.5°	778.8	774.9	769.3	771.5
15°	717.2	710.8	700.4	701.7
17.5°	662.1	663.0	656.9	658.7
20°	621.2	618.2	618.6	617.3
22.5°	592.8	588.9	585.1	582.0
25°	560.1	557.5	553.6	552.8
27.5°	531.2	530.8	529.1	526.9
30°	506.7	505.8	505.0	503.7
32.5°	484.7	484.3	483.5	483.9
35°	464.1	463.7	462.8	462.4
37.5°	444.7	446.0	445.1	445.1
40°	424.5	424.9	425.8	425.3
42.5°	407.7	407.7	409.0	407.3
45°	387.0	389.6	389.2	389.2
47.5°	365.1	368.1	368.5	368.5
50°	343.5	342.7	344.0	343.5
52.5°	317.3	317.7	317.3	316.8
55°	290.2	290.6	289.7	290.2
57.5°	261.3	259.6	260.9	260.0
60°	229.9	226.4	225.6	223.9
62.5°	194.6	192.4	189.0	191.1
65°	164.0	162.3	161.0	162.7
67.5°	139.5	138.6	138.6	137.8
70°	121.0	119.7	119.7	118.8
72.5°	102.0	100.7	101.2	100.7
75°	78.4	76.2	76.2	76.6
77.5°	61.1	60.7	61.6	60.3
80°	47.8	47.4	46.9	48.2
82.5°	34.4	34.4	34.4	36.2
85°	22.4	21.5	22.4	21.5
87.5°	9.9	9.5	9.0	9.5
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242758
 CATALOG NUMBER: S124RDRP-S795D935-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	16.92	18.45	17.29	18.76	19.07	18.74	20.26	19.11	20.58	20.89
	3H	18.15	19.52	18.53	19.84	20.20	20.20	21.56	20.57	21.89	22.25
	4H	18.58	19.86	18.98	20.21	20.59	20.71	21.99	21.11	22.34	22.72
	6H	18.86	20.04	19.27	20.40	20.80	21.06	22.25	21.48	22.61	23.00
	8H	18.94	20.06	19.36	20.45	20.85	21.16	22.29	21.59	22.68	23.08
	12H	18.99	20.06	19.42	20.45	20.87	21.22	22.30	21.65	22.68	23.11
4H	2H	18.18	19.46	18.58	19.81	20.19	19.25	20.53	19.65	20.88	21.26
	3H	19.42	20.48	19.83	20.88	21.28	20.99	22.05	21.40	22.45	22.85
	4H	19.88	20.84	20.31	21.25	21.69	21.62	22.57	22.05	22.99	23.43
	6H	20.21	21.04	20.66	21.48	21.94	22.07	22.90	22.53	23.35	23.81
	8H	20.30	21.08	20.76	21.52	21.99	22.21	22.98	22.67	23.43	23.90
	12H	20.37	21.06	20.85	21.54	22.01	22.30	22.99	22.78	23.47	23.94
8H	4H	20.28	21.06	20.75	21.50	21.97	21.73	22.50	22.19	22.95	23.42
	6H	20.67	21.31	21.17	21.80	22.28	22.27	22.91	22.77	23.40	23.88
	8H	20.81	21.38	21.32	21.89	22.38	22.46	23.04	22.98	23.55	24.03
	12H	20.92	21.43	21.43	21.92	22.48	22.61	23.12	23.12	23.61	24.17
12H	4H	20.32	21.01	20.80	21.49	21.96	21.72	22.41	22.20	22.89	23.36
	6H	20.72	21.29	21.23	21.80	22.29	22.26	22.84	22.77	23.35	23.83
	8H	20.90	21.41	21.41	21.90	22.46	22.49	23.00	23.00	23.49	24.05