

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: P242753

Luminaire Tested: S124RDRP-S795D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242753
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-S795D930-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

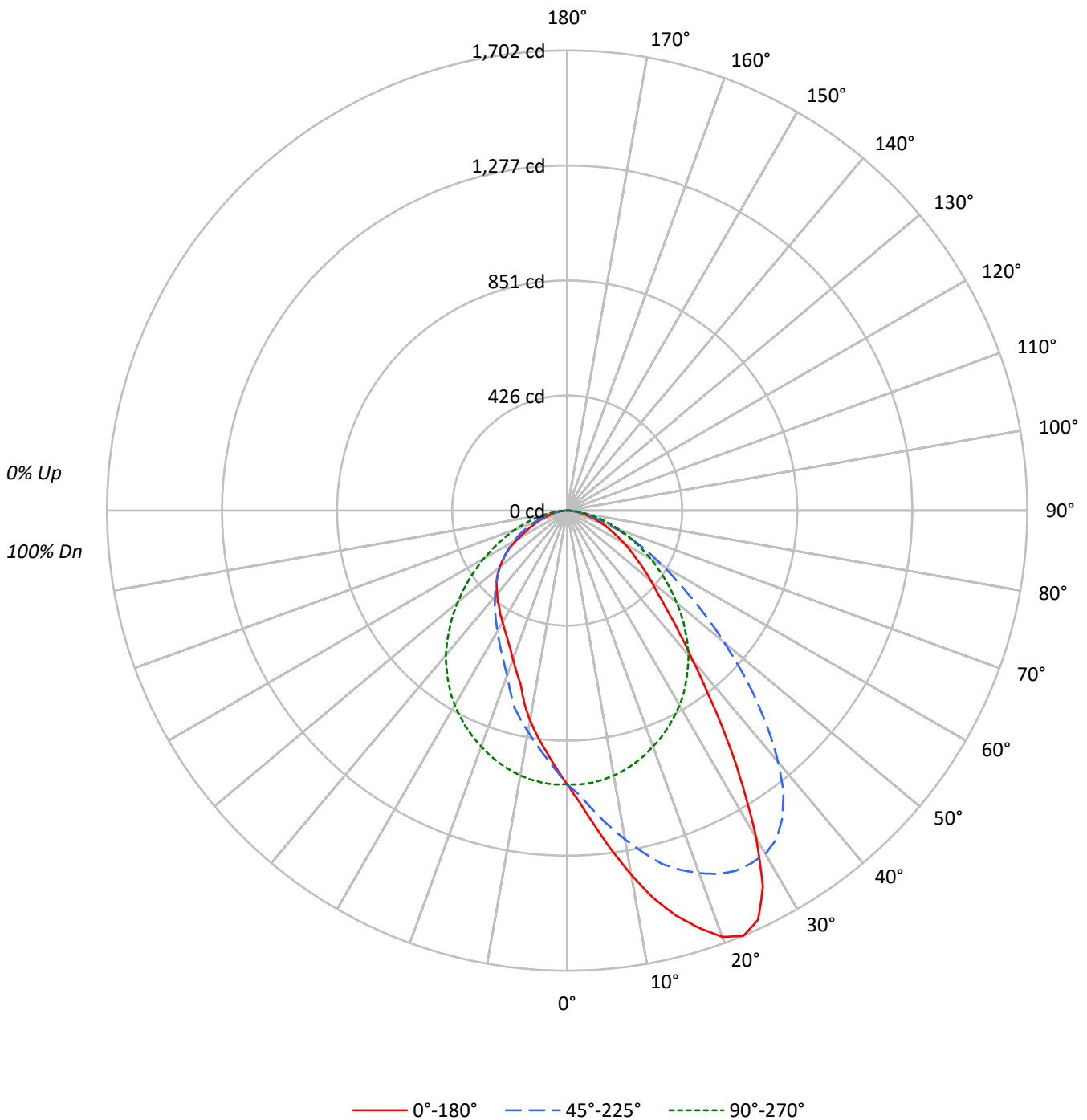
Lumens per Lamp: N/A
Luminaire Lumens: 2557.7 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	8994	8994	8994	8994	8994
5°	10432	9930	9021	8163	7973
10°	12341	11149	8982	7502	7116
15°	14256	12447	8898	6932	6115
20°	15872	13497	8784	6132	5530
25°	16385	14425	8672	5649	5133
30°	14343	15046	8536	5293	4896
35°	11165	15053	8334	5025	4751
40°	8372	14082	8103	4811	4674
45°	6611	12428	7732	4627	4632
50°	5581	10457	7306	4471	4498
55°	4865	8668	6836	4302	4259
60°	4377	7255	6348	4059	3769
65°	3857	6045	5822	3782	3241
70°	3475	4831	5276	3412	2924
75°	2912	3754	4678	2995	2493
80°	2462	2836	3988	2483	2339
85°	2081	2244	3121	2203	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 13272 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.8
10°-20°	295.9	11.6
20°-30°	463.4	18.1
30°-40°	514.6	20.1
40°-50°	456.1	17.8
50°-60°	355.4	13.9
60°-70°	232.5	9.1
70°-80°	114.1	4.5
80°-90°	27.8	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°	857.3	33.5
0°-40°	1371.9	53.6
0°-60°	2183.4	85.4
0°-90°	2557.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1012	1012	1012	1012	1012	
5°	1169	1113	1011	915	894	118
15°	1549	1353	967	753	664	441
25°	1671	1471	884	576	523	746
35°	1029	1387	768	463	438	644
45°	526	989	615	368	368	415
55°	314	559	441	278	275	285
65°	183	287	277	180	154	184
75°	85	109	136	87	73	93
85°	20	22	31	22	20	24
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°	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8
2.5°	1081.1	1084.8	1081.1	1080.7	1076.6	1075.4	1073.8	1068.5	1058.7	1053.0	1054.2
5°	1169.1	1179.3	1173.6	1172.8	1163.8	1154.9	1149.2	1136.1	1122.3	1112.9	1105.1
7.5°	1267.0	1273.1	1269.0	1264.5	1249.0	1244.2	1230.7	1215.2	1192.0	1174.4	1158.5
10°	1367.3	1372.2	1370.5	1359.9	1349.3	1327.7	1315.5	1291.4	1260.0	1235.2	1211.9
12.5°	1465.9	1471.2	1453.7	1456.9	1434.5	1418.6	1397.4	1365.6	1328.1	1294.3	1263.7
15°	1549.1	1542.6	1542.6	1534.4	1512.0	1488.3	1468.4	1436.6	1390.9	1352.6	1312.2
17.5°	1617.6	1620.4	1617.2	1596.4	1580.1	1556.0	1520.1	1483.8	1444.3	1392.9	1353.0
20°	1677.9	1677.9	1674.2	1661.2	1638.3	1612.3	1572.7	1532.4	1478.6	1426.8	1380.3
22.5°	1702.4	1704.0	1699.5	1689.3	1669.3	1644.1	1611.9	1570.7	1514.8	1454.9	1394.6
25°	1670.6	1678.3	1679.1	1676.3	1670.1	1654.7	1625.7	1583.7	1534.0	1470.8	1408.8
27.5°	1567.8	1578.0	1582.1	1591.1	1607.8	1613.9	1610.2	1582.1	1534.0	1471.6	1410.1
30°	1397.4	1405.6	1432.1	1466.7	1493.6	1518.1	1539.3	1545.0	1520.5	1465.9	1400.3
32.5°	1208.3	1220.1	1246.6	1284.5	1333.8	1379.5	1433.7	1462.7	1468.0	1440.6	1381.1
35°	1028.9	1037.1	1061.5	1100.7	1154.5	1216.0	1291.4	1350.1	1390.1	1387.2	1350.1
37.5°	856.9	868.3	893.2	925.4	978.4	1057.0	1128.4	1207.1	1278.8	1313.9	1295.1
40°	721.5	721.9	746.0	779.4	828.3	894.8	974.3	1064.0	1146.3	1213.6	1226.6
42.5°	614.7	614.7	628.6	665.3	697.1	758.6	833.6	922.5	1022.4	1102.7	1142.6
45°	525.9	529.5	542.6	564.2	591.9	644.9	705.6	788.4	896.4	988.6	1046.0
47.5°	455.8	462.3	470.0	489.6	512.4	549.5	601.3	678.7	768.4	870.7	950.2
50°	403.6	404.4	415.0	424.8	443.9	472.1	516.1	578.0	658.8	756.2	847.1
52.5°	358.7	358.3	363.6	376.7	391.3	411.7	445.2	500.2	569.5	654.3	748.9
55°	313.9	315.9	320.8	330.6	342.4	357.9	386.0	428.4	484.7	559.3	644.5
57.5°	279.6	280.9	285.4	289.0	300.4	311.9	334.7	365.3	414.6	477.0	560.5
60°	246.2	246.6	247.9	254.0	262.5	273.1	287.4	312.3	352.2	408.1	470.8
62.5°	213.6	214.4	216.5	220.5	226.7	233.2	248.3	267.0	298.4	344.1	399.1
65°	183.4	183.9	186.7	188.3	193.6	200.2	211.2	224.6	247.4	287.4	330.2
67.5°	158.2	158.2	158.2	160.6	164.7	169.2	176.5	187.9	206.3	232.0	271.9
70°	133.7	133.7	134.5	135.7	137.8	141.5	145.1	153.3	165.9	185.9	214.8
72.5°	110.9	111.3	112.1	112.1	112.9	115.8	118.2	122.7	131.3	145.1	167.1
75°	84.8	86.0	88.1	89.7	91.7	91.3	94.2	97.4	100.3	109.3	122.7
77.5°	66.9	66.0	66.0	67.7	68.1	68.5	70.5	73.4	75.8	80.7	85.6
80°	48.1	48.1	49.3	49.7	49.3	49.7	51.8	53.0	53.8	55.4	59.9
82.5°	33.4	34.2	33.4	33.8	34.2	34.7	36.3	36.3	37.1	37.5	38.7
85°	20.4	20.8	21.2	20.4	20.4	20.4	21.2	21.6	22.4	22.0	22.8
87.5°	9.0	8.6	9.0	9.0	9.4	9.0	9.4	10.2	9.4	9.8	9.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8
2.5°	1050.1	1044.4	1041.5	1035.0	1027.3	1023.2	1019.5	1014.2	1007.3	1000.0	994.7
5°	1095.4	1085.6	1073.3	1058.7	1045.6	1033.0	1022.0	1011.0	998.3	985.3	972.2
7.5°	1140.2	1122.7	1103.9	1081.5	1059.9	1039.9	1022.0	1004.5	984.5	966.5	949.8
10°	1187.5	1161.4	1132.5	1101.9	1071.3	1044.8	1018.7	995.1	969.0	945.8	926.2
12.5°	1225.8	1194.0	1157.7	1117.8	1079.5	1046.0	1015.1	982.4	951.9	926.2	898.5
15°	1269.0	1227.0	1180.1	1134.5	1086.8	1043.2	1002.8	966.9	933.1	897.6	872.8
17.5°	1298.8	1250.3	1194.8	1141.8	1087.2	1036.7	991.0	949.4	910.7	875.2	845.9
20°	1324.9	1269.8	1206.6	1144.3	1081.1	1026.1	975.9	928.6	888.3	849.1	818.6
22.5°	1339.5	1277.2	1206.6	1140.6	1074.6	1013.8	957.6	907.8	863.0	823.9	789.2
25°	1340.4	1275.1	1204.6	1129.6	1057.9	994.7	937.6	884.2	835.3	796.1	760.3
27.5°	1337.1	1261.7	1190.7	1114.5	1040.7	973.5	914.4	857.7	809.2	767.6	730.9
30°	1327.3	1245.0	1167.5	1087.6	1012.6	948.6	885.4	831.6	780.7	737.0	699.9
32.5°	1306.1	1224.6	1139.8	1057.4	981.2	914.8	855.7	801.4	751.7	706.9	666.9
35°	1276.8	1194.0	1103.5	1019.5	944.9	876.4	820.2	768.0	720.3	672.6	631.0
37.5°	1242.9	1156.5	1067.2	975.1	900.9	835.7	783.1	733.0	686.5	642.9	596.8
40°	1190.7	1113.7	1020.8	929.4	852.8	790.4	742.7	698.3	651.4	608.2	562.2
42.5°	1127.6	1064.8	970.6	878.9	803.5	744.0	700.3	657.1	615.6	574.0	525.5
45°	1055.8	1006.1	918.0	830.0	753.7	694.2	653.5	615.1	577.6	537.7	492.4
47.5°	975.9	939.2	862.6	770.5	699.1	644.5	605.4	573.6	540.5	500.2	459.4
50°	891.9	870.3	797.0	714.6	647.3	598.0	557.7	528.3	501.8	463.5	428.0
52.5°	802.3	793.3	734.2	656.3	591.9	543.8	510.8	485.1	458.2	428.0	395.4
55°	710.9	717.1	664.5	596.4	535.2	494.5	463.1	441.1	418.2	391.3	365.7
57.5°	616.0	639.2	600.1	538.5	479.4	441.1	417.0	397.5	378.3	355.5	332.2
60°	532.4	551.1	531.2	478.6	428.4	393.4	371.4	357.1	337.9	317.6	300.8
62.5°	450.9	471.2	461.5	421.5	375.9	346.9	328.2	315.1	302.1	284.9	267.4
65°	385.2	398.3	392.6	363.2	330.2	304.5	286.6	276.8	263.8	250.7	235.2
67.5°	308.2	333.9	329.8	313.5	281.7	261.3	248.7	239.7	227.5	217.7	206.7
70°	242.6	265.8	265.4	252.7	237.3	218.5	210.3	203.0	192.4	183.0	174.5
72.5°	187.5	208.3	212.4	203.4	194.0	181.0	173.3	168.8	158.6	152.9	146.3
75°	139.0	154.5	158.6	158.6	153.7	146.3	139.4	136.2	128.8	123.1	119.0
77.5°	97.8	108.4	114.5	115.8	116.2	113.3	106.8	104.4	98.7	96.6	92.1
80°	64.4	70.9	78.3	80.7	82.8	81.9	79.5	77.9	72.6	70.5	68.9
82.5°	39.5	42.4	48.1	54.2	53.0	55.8	53.8	52.6	48.9	48.5	46.9
85°	23.2	23.6	24.5	28.1	30.2	31.0	31.4	30.6	29.4	29.4	26.5
87.5°	9.8	9.4	10.2	10.2	10.6	12.2	13.5	13.9	12.6	11.4	10.2
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°	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8
2.5°	989.0	984.9	979.6	973.5	966.1	959.6	956.8	959.2	960.4	957.2	956.8
5°	963.3	953.1	944.9	932.7	922.9	914.8	909.1	906.6	907.4	900.9	899.3
7.5°	934.7	923.7	910.3	896.4	883.4	872.0	865.9	863.0	856.1	853.2	848.7
10°	907.4	891.1	878.1	861.0	845.5	831.2	824.3	818.6	811.6	808.4	801.4
12.5°	879.3	859.7	845.1	827.1	811.2	793.3	786.8	774.9	763.1	755.4	746.0
15°	853.2	830.4	812.9	791.7	772.9	753.3	735.8	716.2	708.9	693.4	684.4
17.5°	822.2	798.6	779.0	751.7	723.6	699.9	680.4	660.0	649.0	638.4	633.9
20°	791.7	770.5	740.3	707.3	675.1	648.2	633.1	620.9	608.6	601.7	596.8
22.5°	762.7	734.2	697.9	661.6	629.4	609.8	597.6	585.0	575.6	569.1	562.2
25°	729.7	694.2	657.1	616.4	594.4	576.0	562.2	552.0	545.8	537.3	534.0
27.5°	697.5	654.7	612.7	585.0	562.2	544.6	532.0	524.6	516.5	510.8	506.3
30°	659.2	615.6	578.9	552.8	529.5	515.7	505.9	496.9	490.8	486.3	483.1
32.5°	621.3	577.6	548.3	519.8	502.6	489.2	478.6	472.5	468.0	461.9	460.2
35°	585.0	546.3	519.3	494.1	475.3	463.1	454.9	448.0	443.9	442.3	441.1
37.5°	549.5	517.3	487.6	467.2	449.6	440.3	429.7	426.4	423.5	419.9	421.5
40°	516.1	486.3	460.6	438.6	425.2	414.6	408.9	404.8	402.4	402.4	402.4
42.5°	487.1	458.2	433.3	414.2	400.7	392.2	385.6	382.4	382.0	381.6	384.0
45°	457.0	430.1	404.8	388.5	377.1	368.1	364.4	361.6	361.6	363.2	363.6
47.5°	426.8	401.5	381.2	362.4	351.8	346.1	342.8	341.2	341.2	343.2	344.9
50°	399.5	374.6	354.7	338.4	328.6	323.3	320.4	319.6	320.4	320.4	323.3
52.5°	369.7	348.1	328.6	315.5	304.1	299.2	298.0	296.8	297.2	298.8	299.6
55°	340.8	320.8	302.1	289.0	280.9	277.6	273.9	274.3	273.5	274.3	274.3
57.5°	311.4	293.9	275.6	265.0	258.0	253.2	249.1	250.3	249.1	249.1	248.7
60°	283.3	263.8	249.9	240.5	232.4	228.3	224.6	225.4	224.2	223.4	221.8
62.5°	252.7	237.3	224.2	215.2	209.1	204.2	200.6	199.3	196.1	192.8	188.7
65°	223.4	209.9	198.1	189.6	183.4	179.8	176.9	174.5	168.4	161.8	158.6
67.5°	194.4	184.7	173.3	165.9	161.0	156.1	150.8	146.3	140.2	136.2	134.1
70°	166.7	157.4	148.0	141.0	135.7	131.3	125.1	122.3	118.2	116.6	114.5
72.5°	140.2	131.7	123.1	117.0	111.3	108.0	103.5	100.7	99.5	99.1	97.0
75°	113.3	106.4	99.9	94.2	89.7	87.2	85.2	83.2	82.3	78.7	76.6
77.5°	87.2	82.3	78.3	73.8	70.9	69.3	64.8	62.0	60.3	58.3	57.9
80°	64.4	61.1	57.1	54.6	50.1	48.5	46.9	46.5	46.1	45.7	45.2
82.5°	44.4	41.2	37.1	35.9	35.5	34.7	33.8	33.4	33.0	33.4	33.4
85°	24.5	22.8	22.8	22.4	22.0	21.6	21.2	21.2	20.8	21.2	20.8
87.5°	10.2	9.8	9.8	9.0	9.4	9.4	9.0	9.0	9.4	8.6	8.6
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: P242753

CATALOG NUMBER: S124RDRP-S795D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1011.8	1011.8	1011.8	1011.8
2.5°	954.3	955.1	952.3	951.5
5°	896.0	895.2	893.2	893.6
7.5°	845.5	842.6	844.7	841.4
10°	799.8	795.3	791.7	788.4
12.5°	737.4	733.8	728.5	730.5
15°	679.1	673.0	663.2	664.5
17.5°	627.0	627.8	622.1	623.7
20°	588.2	585.4	585.8	584.6
22.5°	561.3	557.7	554.0	551.1
25°	530.4	527.9	524.2	523.4
27.5°	503.0	502.6	501.0	499.0
30°	479.8	479.0	478.2	477.0
32.5°	459.0	458.6	457.8	458.2
35°	439.4	439.0	438.2	437.8
37.5°	421.1	422.3	421.5	421.5
40°	401.9	402.4	403.2	402.8
42.5°	386.0	386.0	387.3	385.6
45°	366.5	368.9	368.5	368.5
47.5°	345.7	348.5	348.9	348.9
50°	325.3	324.5	325.7	325.3
52.5°	300.4	300.8	300.4	300.0
55°	274.8	275.2	274.3	274.8
57.5°	247.4	245.8	247.0	246.2
60°	217.7	214.4	213.6	212.0
62.5°	184.3	182.2	179.0	181.0
65°	155.3	153.7	152.5	154.1
67.5°	132.1	131.3	131.3	130.4
70°	114.5	113.3	113.3	112.5
72.5°	96.6	95.4	95.8	95.4
75°	74.2	72.2	72.2	72.6
77.5°	57.9	57.5	58.3	57.1
80°	45.2	44.8	44.4	45.7
82.5°	32.6	32.6	32.6	34.2
85°	21.2	20.4	21.2	20.4
87.5°	9.4	9.0	8.6	9.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242753
 CATALOG NUMBER: S124RDRP-S795D930-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	16.73	18.26	17.10	18.57	18.88	18.55	20.07	18.92	20.39	20.70
	3H	17.96	19.33	18.34	19.65	20.01	20.01	21.37	20.38	21.70	22.06
	4H	18.39	19.67	18.79	20.02	20.40	20.52	21.80	20.92	22.15	22.53
	6H	18.67	19.85	19.08	20.21	20.61	20.87	22.06	21.29	22.42	22.81
	8H	18.75	19.87	19.17	20.26	20.66	20.98	22.10	21.40	22.49	22.89
	12H	18.80	19.87	19.23	20.26	20.68	21.03	22.11	21.46	22.49	22.92
4H	2H	17.99	19.27	18.39	19.62	20.00	19.06	20.34	19.46	20.69	21.07
	3H	19.23	20.29	19.64	20.69	21.09	20.80	21.86	21.21	22.26	22.66
	4H	19.69	20.65	20.13	21.06	21.50	21.43	22.38	21.86	22.80	23.24
	6H	20.02	20.85	20.47	21.29	21.75	21.88	22.71	22.34	23.16	23.62
	8H	20.11	20.89	20.57	21.33	21.80	22.02	22.79	22.48	23.24	23.71
	12H	20.18	20.87	20.66	21.35	21.82	22.11	22.80	22.59	23.28	23.75
8H	4H	20.10	20.87	20.56	21.32	21.78	21.54	22.31	22.00	22.76	23.23
	6H	20.48	21.12	20.98	21.61	22.09	22.08	22.72	22.58	23.21	23.69
	8H	20.62	21.19	21.13	21.70	22.19	22.27	22.85	22.79	23.36	23.84
	12H	20.73	21.24	21.24	21.73	22.29	22.42	22.93	22.93	23.42	23.98
12H	4H	20.13	20.82	20.61	21.30	21.77	21.53	22.22	22.01	22.70	23.17
	6H	20.53	21.10	21.04	21.61	22.10	22.07	22.65	22.58	23.16	23.64
	8H	20.71	21.22	21.22	21.71	22.27	22.30	22.81	22.81	23.30	23.86