

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: P243618

Luminaire Tested: S124RDRP-H795D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-H795D935-X4F0-XX-UDD-A-W  
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

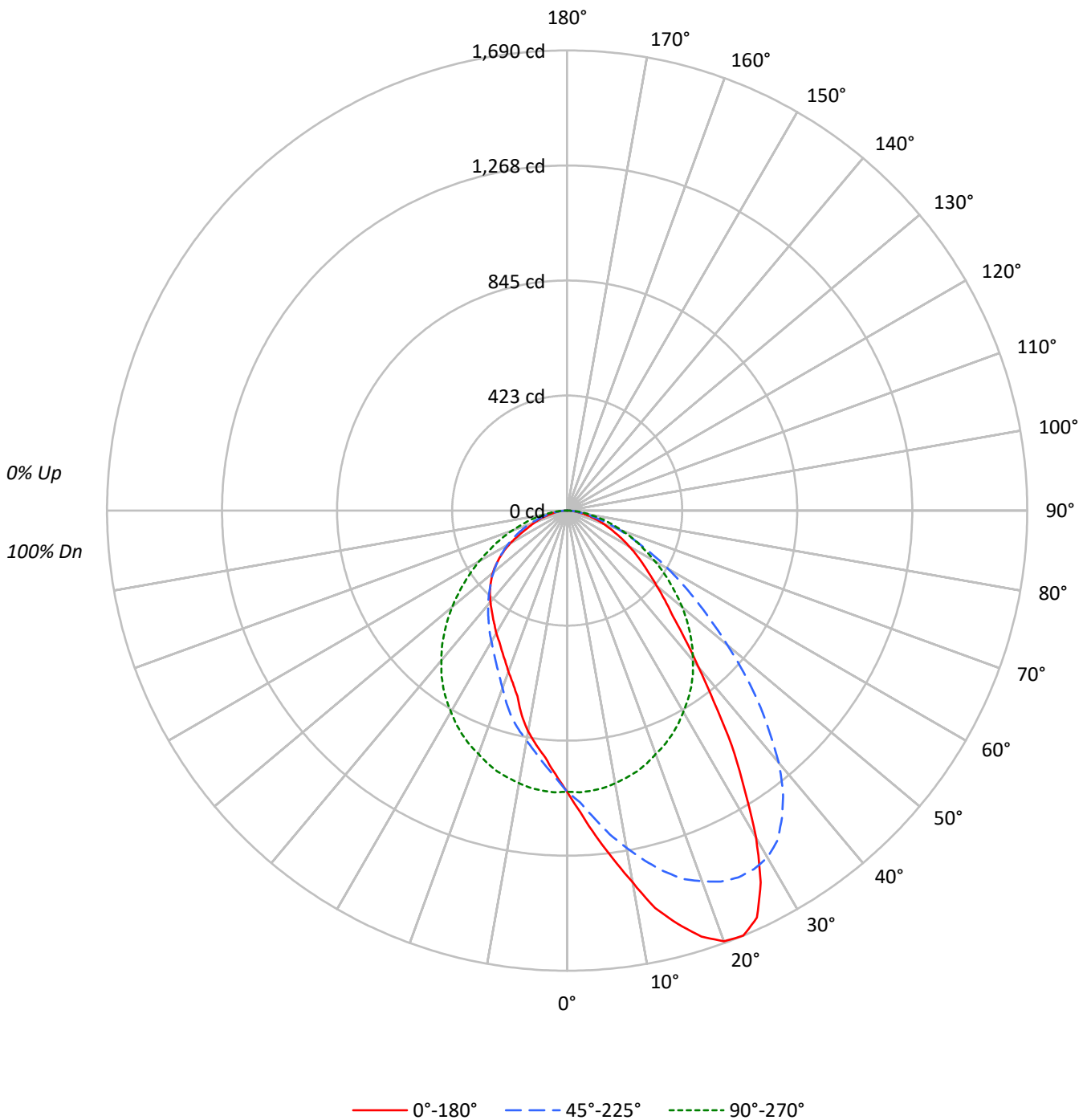
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2664.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' 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	105	102	98	107	103	100	97	99	96	93	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	76	70	66	73	69	65				63	
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57				55	
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50				48	
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44				42	
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40				38	
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36				34	
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32				31	
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30				28	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	9175	9175	9175	9175	9175
5°	10688	10110	9214	8363	8134
10°	12516	11352	9175	7739	7437
15°	14463	12621	9129	7231	6495
20°	15924	13707	9000	6567	5955
25°	16179	14582	8917	6059	5567
30°	14241	15099	8758	5702	5338
35°	11428	14930	8609	5447	5164
40°	8693	14025	8335	5229	5084
45°	6903	12460	8029	5047	5022
50°	5926	10622	7632	4886	4935
55°	5232	9019	7138	4716	4697
60°	4688	7625	6624	4501	4302
65°	4127	6272	6121	4194	3618
70°	3678	5172	5557	3844	3259
75°	3204	4059	5052	3383	2899
80°	2718	3107	4341	2861	2677
85°	2376	2540	3733	2784	2703

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 13411 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	3.8
10°-20°	303.7	11.4
20°-30°	474.0	17.8
30°-40°	528.6	19.8
40°-50°	475.2	17.8
50°-60°	375.4	14.1
60°-70°	249.4	9.4
70°-80°	125.0	4.7
80°-90°	32.6	1.2
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°	877.9	33.0
0°-40°	1406.5	52.8
0°-60°	2257.1	84.7
0°-90°	2664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1032	1032	1032	1032	1032	
5°	1198	1133	1033	937	912	120
15°	1572	1372	992	786	706	447
25°	1650	1487	909	618	568	738
35°	1053	1376	793	502	476	654
45°	549	991	639	402	400	435
55°	338	582	461	304	303	304
65°	196	298	291	199	172	196
75°	93	118	147	98	84	100
85°	23	25	37	27	26	26
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°	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1108.6	1104.6	1104.2	1098.9	1098.5	1093.3	1091.7	1087.3	1078.4	1071.6	1072.0
5°	1197.8	1194.6	1194.2	1189.0	1187.4	1180.9	1170.9	1158.8	1144.8	1133.1	1125.5
7.5°	1289.5	1295.1	1289.1	1289.1	1277.4	1269.8	1250.1	1240.0	1215.9	1199.0	1181.3
10°	1386.7	1391.9	1389.5	1384.7	1369.4	1353.8	1333.3	1313.6	1284.2	1257.7	1240.0
12.5°	1495.3	1479.6	1489.6	1474.8	1462.3	1437.4	1417.7	1378.3	1355.0	1316.4	1281.8
15°	1571.6	1565.6	1565.2	1555.1	1541.5	1514.1	1492.8	1451.8	1412.0	1371.5	1332.5
17.5°	1640.0	1640.8	1635.1	1619.1	1601.4	1574.8	1545.9	1509.3	1463.9	1418.9	1372.7
20°	1683.4	1683.8	1679.7	1671.3	1652.0	1627.9	1598.1	1550.3	1498.9	1449.0	1402.8
22.5°	1689.8	1691.0	1689.8	1684.6	1671.3	1651.6	1624.3	1583.7	1531.8	1474.8	1419.7
25°	1649.6	1653.6	1654.0	1661.3	1654.4	1646.8	1626.7	1592.5	1544.7	1486.8	1426.9
27.5°	1539.5	1550.7	1561.2	1574.0	1585.7	1596.1	1597.7	1579.7	1538.7	1484.8	1427.7
30°	1387.5	1400.8	1421.7	1435.4	1471.5	1494.4	1525.4	1532.2	1512.5	1471.1	1416.1
32.5°	1210.7	1224.7	1232.8	1277.8	1329.6	1367.0	1418.5	1449.0	1456.7	1437.0	1391.9
35°	1053.1	1055.5	1061.5	1112.6	1164.0	1220.7	1284.6	1337.7	1373.9	1375.9	1353.8
37.5°	884.3	887.1	910.8	949.8	994.4	1056.7	1130.3	1205.8	1272.2	1302.7	1296.3
40°	749.2	748.4	773.8	807.5	850.9	915.6	991.6	1074.0	1144.8	1208.7	1223.9
42.5°	639.9	642.7	664.4	684.1	725.9	771.3	852.5	938.1	1029.0	1098.9	1145.6
45°	549.1	556.3	571.2	589.7	621.0	662.8	729.1	814.3	907.2	991.2	1047.1
47.5°	486.4	488.4	496.0	518.9	539.8	573.6	630.3	702.6	785.0	879.1	952.6
50°	428.5	433.3	436.1	449.8	470.3	502.4	546.2	600.1	681.7	768.1	860.2
52.5°	378.6	381.4	386.7	399.1	415.2	437.7	472.3	519.7	587.6	667.6	754.5
55°	337.6	338.0	343.3	352.1	364.6	381.9	414.8	449.0	509.3	582.0	660.8
57.5°	300.7	298.2	303.1	308.3	320.4	335.2	356.5	391.5	438.5	500.4	571.6
60°	263.7	265.7	265.3	271.3	277.7	292.6	310.7	333.6	372.2	428.9	489.2
62.5°	229.1	228.7	232.7	236.3	240.8	252.8	267.7	286.6	316.7	358.5	416.8
65°	196.2	197.0	200.2	203.0	207.8	215.4	226.7	242.0	266.1	298.2	347.3
67.5°	166.4	169.2	170.8	171.6	176.1	181.7	191.3	203.8	220.3	246.0	287.0
70°	141.5	142.3	143.1	145.9	147.9	151.1	158.4	165.2	180.1	199.0	228.7
72.5°	118.2	117.4	119.8	120.6	121.4	124.6	129.0	132.6	142.3	158.4	176.9
75°	93.3	93.7	94.1	95.3	98.5	98.9	100.9	104.9	111.7	118.2	130.6
77.5°	69.9	71.1	70.7	71.9	73.2	74.4	75.2	78.8	83.6	88.8	94.9
80°	53.1	53.1	53.1	53.9	53.1	55.9	55.9	57.1	58.3	60.7	65.1
82.5°	36.2	37.0	37.4	37.8	38.2	38.2	38.6	39.4	41.0	41.8	43.0
85°	23.3	22.5	22.9	22.9	22.9	22.9	23.7	24.5	24.5	24.9	26.1
87.5°	10.5	10.5	10.5	10.5	10.0	10.5	10.9	10.9	11.3	11.3	12.1
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°	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1069.6	1068.4	1062.4	1055.9	1049.9	1043.9	1041.9	1035.8	1028.6	1022.2	1014.9
5°	1117.4	1107.8	1094.5	1080.8	1066.8	1053.9	1043.9	1032.6	1019.7	1004.5	992.4
7.5°	1165.7	1148.0	1126.3	1106.2	1082.0	1062.8	1043.5	1027.4	1008.9	987.2	970.7
10°	1212.7	1183.3	1156.8	1125.1	1094.5	1068.0	1043.5	1016.5	992.0	968.7	945.8
12.5°	1250.1	1220.7	1182.5	1143.5	1104.2	1069.6	1036.6	1004.9	974.3	946.2	920.9
15°	1292.7	1250.5	1203.4	1160.4	1106.6	1064.0	1026.2	992.0	957.0	922.9	895.1
17.5°	1324.0	1274.2	1215.9	1166.5	1114.6	1061.5	1016.1	973.1	932.9	897.2	868.6
20°	1348.1	1289.1	1230.8	1168.1	1106.2	1051.9	1000.9	951.4	910.8	871.8	841.7
22.5°	1358.6	1296.3	1231.6	1163.6	1097.7	1036.2	983.2	932.1	886.3	846.1	811.1
25°	1363.0	1294.7	1227.6	1150.4	1083.7	1021.0	961.9	909.2	862.2	816.8	782.2
27.5°	1359.4	1286.2	1209.1	1136.3	1060.7	999.2	936.5	883.1	834.0	790.2	751.6
30°	1349.7	1266.9	1190.2	1108.6	1035.8	971.1	910.0	853.3	803.9	759.3	721.1
32.5°	1324.8	1245.2	1158.0	1078.4	1000.0	936.1	880.7	824.8	774.6	727.9	691.0
35°	1293.9	1215.9	1124.7	1041.5	963.9	899.2	843.3	793.4	744.0	694.6	656.8
37.5°	1254.9	1175.7	1087.7	998.0	922.1	859.4	808.3	758.1	709.0	663.6	621.4
40°	1202.2	1129.9	1041.5	951.4	875.0	814.8	764.5	718.3	674.9	630.3	584.8
42.5°	1136.7	1081.6	990.4	901.6	826.8	766.9	722.3	680.9	639.1	593.3	552.3
45°	1066.8	1019.7	936.9	847.3	776.2	717.9	675.3	638.7	599.3	558.7	515.7
47.5°	988.0	953.0	881.5	792.6	717.9	668.0	628.6	595.3	559.5	523.3	481.5
50°	899.2	877.9	816.8	736.0	664.8	614.2	581.6	551.9	521.3	485.2	449.4
52.5°	810.3	806.3	749.2	678.1	611.0	563.9	532.2	504.8	479.9	445.8	415.6
55°	717.1	729.1	681.7	616.2	556.3	510.9	482.7	460.6	438.9	410.0	381.0
57.5°	634.3	647.9	615.4	555.1	499.2	460.6	436.5	416.4	397.5	371.0	351.7
60°	542.6	567.6	550.3	495.2	445.8	411.2	388.7	372.6	356.9	334.0	317.1
62.5°	470.3	487.6	477.5	436.5	392.7	364.6	344.5	329.6	317.1	299.5	283.0
65°	392.7	414.4	409.2	382.3	343.7	317.9	302.7	291.0	278.1	264.1	250.4
67.5°	322.8	345.3	344.1	325.6	297.0	275.7	261.3	252.8	242.4	228.7	220.3
70°	259.7	280.6	281.4	272.1	252.0	231.9	221.5	213.8	205.8	195.7	189.7
72.5°	201.8	220.7	223.9	219.5	206.6	193.3	184.1	178.9	172.0	163.6	158.4
75°	150.7	164.4	172.0	170.0	164.8	156.0	150.7	147.1	140.3	134.3	129.8
77.5°	107.3	118.2	125.8	129.0	126.6	123.0	118.2	115.4	108.1	105.3	102.9
80°	71.9	81.6	88.4	90.4	91.6	90.8	86.4	84.8	81.2	80.0	77.6
82.5°	44.2	49.4	54.3	59.5	61.9	61.9	59.5	59.9	56.7	55.1	54.3
85°	26.9	28.1	28.9	33.0	36.2	37.4	36.2	36.6	35.4	34.2	33.0
87.5°	12.5	12.5	12.9	13.7	14.5	16.9	17.7	18.9	17.3	17.3	14.5
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°	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1010.5	1005.3	1001.3	994.8	989.6	981.2	978.3	978.3	980.0	977.9	980.0
5°	984.0	974.3	963.9	954.6	944.6	937.3	930.1	928.5	927.7	922.9	923.3
7.5°	957.4	944.6	931.3	919.3	906.8	895.5	887.9	884.7	881.9	878.7	875.0
10°	928.9	914.0	898.4	884.7	872.6	857.4	849.7	847.3	839.3	837.7	832.0
12.5°	898.8	883.5	867.8	850.1	838.5	823.6	812.3	807.1	799.5	793.8	785.4
15°	875.0	855.7	834.8	817.6	802.3	785.8	770.5	760.5	750.4	734.8	727.1
17.5°	845.7	823.6	805.5	787.0	764.9	740.8	722.7	707.8	697.0	684.1	676.5
20°	813.9	793.4	770.9	744.8	721.5	694.2	677.7	665.2	656.8	649.1	645.1
22.5°	785.8	762.1	731.1	706.2	673.7	652.0	638.7	630.7	622.6	614.6	610.6
25°	755.3	727.5	689.7	659.2	634.7	617.8	604.9	597.3	588.9	584.0	578.0
27.5°	725.1	689.3	651.6	623.8	604.5	584.8	574.0	568.0	561.5	554.7	549.9
30°	688.5	647.9	616.6	591.3	572.0	555.5	547.5	538.6	533.0	529.0	526.2
32.5°	650.4	611.4	582.8	561.1	542.2	529.8	519.7	514.1	509.3	504.8	501.6
35°	614.6	576.8	552.7	531.8	516.1	502.0	494.4	489.2	485.2	481.5	479.9
37.5°	579.2	547.1	520.9	504.4	488.0	476.7	469.5	464.7	462.2	458.6	459.0
40°	544.2	515.3	494.4	475.5	460.2	450.6	445.0	442.9	439.3	438.1	439.3
42.5°	512.9	486.4	466.3	448.6	435.3	426.1	421.6	418.8	417.6	417.2	417.6
45°	482.3	457.4	438.1	423.7	410.0	401.5	397.9	395.9	394.7	396.7	397.1
47.5°	451.8	429.3	412.0	395.1	383.9	377.8	374.2	372.6	373.8	374.6	377.4
50°	421.6	400.7	382.7	367.8	358.9	353.3	352.1	349.3	351.3	352.5	354.5
52.5°	391.1	372.2	356.1	342.1	332.8	329.2	326.4	325.2	328.0	328.0	330.0
55°	360.1	343.7	328.8	315.9	308.7	304.3	302.3	300.7	302.3	302.7	302.3
57.5°	331.2	315.5	299.9	289.0	283.0	278.1	276.1	275.3	274.9	276.5	276.1
60°	300.7	285.8	273.3	262.1	256.0	253.2	248.8	249.6	249.6	249.6	245.6
62.5°	270.1	255.2	244.4	236.7	229.5	224.7	223.9	222.7	220.3	219.9	214.6
65°	238.8	227.5	218.3	210.6	203.4	199.4	198.2	194.5	191.7	186.5	182.9
67.5°	209.8	201.8	190.9	184.5	178.5	173.6	169.2	166.4	160.8	155.6	152.3
70°	180.9	172.4	165.2	158.4	152.3	147.9	142.7	137.5	133.8	130.6	128.2
72.5°	151.9	144.7	138.7	132.2	125.8	121.4	117.4	113.3	111.7	110.1	108.9
75°	125.0	118.2	112.5	107.3	103.7	98.5	96.5	94.9	93.3	91.2	88.8
77.5°	98.9	93.7	89.2	84.8	81.6	78.8	77.2	72.4	68.3	67.5	66.7
80°	73.6	69.5	66.7	63.5	59.9	55.9	54.7	53.1	52.3	52.3	52.7
82.5°	51.4	49.0	45.8	43.0	41.8	40.2	40.2	39.8	39.4	39.8	39.8
85°	31.4	28.1	27.3	26.9	27.3	27.3	27.3	27.3	26.9	27.3	26.5
87.5°	13.7	14.9	15.3	14.1	14.5	13.7	14.1	14.1	14.1	14.5	14.1
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: P243618

CATALOG NUMBER: S124RDRP-H795D935-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1032.2	1032.2	1032.2	1032.2
2.5°	977.5	977.5	973.5	970.3
5°	922.5	917.2	916.4	911.6
7.5°	871.0	870.2	868.2	868.2
10°	830.0	827.2	824.4	824.0
12.5°	772.1	776.2	771.3	770.1
15°	721.5	718.3	714.3	705.8
17.5°	674.5	668.4	666.8	663.2
20°	637.5	633.1	631.5	629.5
22.5°	602.5	601.7	596.9	595.7
25°	576.8	572.8	569.6	567.6
27.5°	548.7	545.8	544.2	541.0
30°	522.9	522.1	520.1	520.1
32.5°	499.6	497.2	497.2	496.8
35°	478.3	479.1	476.7	475.9
37.5°	458.2	457.0	457.4	456.6
40°	438.5	437.7	437.7	438.1
42.5°	418.4	418.8	419.6	419.6
45°	398.3	398.7	399.5	399.5
47.5°	379.4	378.6	379.4	378.6
50°	355.3	357.7	357.3	356.9
52.5°	330.8	330.0	331.6	331.2
55°	304.3	303.1	304.7	303.1
57.5°	274.5	274.9	274.9	274.1
60°	244.8	243.6	242.0	242.0
62.5°	210.2	206.6	204.2	205.8
65°	176.9	174.0	173.2	172.0
67.5°	150.3	147.1	145.9	145.5
70°	127.4	125.8	125.4	125.4
72.5°	108.1	108.1	106.9	106.1
75°	88.0	86.4	84.4	84.4
77.5°	65.9	65.5	65.1	65.1
80°	51.4	51.4	51.9	52.3
82.5°	38.6	39.0	39.4	39.4
85°	26.1	26.1	26.5	26.5
87.5°	14.1	14.1	14.1	13.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243618  
 CATALOG NUMBER: S124RDRP-H795D935-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	17.04	18.58	17.41	18.89	19.20	18.74	20.27	19.10	20.58	20.90
	3H	18.27	19.65	18.65	19.98	20.34	20.22	21.60	20.60	21.93	22.29
	4H	18.71	20.00	19.11	20.35	20.73	20.76	22.05	21.16	22.40	22.78
	6H	18.99	20.18	19.40	20.55	20.94	21.15	22.34	21.56	22.71	23.10
	8H	19.07	20.21	19.50	20.60	21.00	21.27	22.41	21.69	22.80	23.20
	12H	19.12	20.21	19.56	20.60	21.02	21.35	22.43	21.78	22.82	23.25
4H	2H	18.25	19.54	18.65	19.89	20.27	19.27	20.56	19.66	20.91	21.28
	3H	19.52	20.59	19.93	20.99	21.39	21.04	22.11	21.45	22.51	22.91
	4H	19.99	20.95	20.42	21.37	21.81	21.70	22.67	22.13	23.08	23.52
	6H	20.32	21.16	20.78	21.60	22.06	22.20	23.04	22.65	23.48	23.94
	8H	20.42	21.21	20.89	21.65	22.12	22.35	23.14	22.82	23.58	24.05
	12H	20.50	21.20	20.98	21.68	22.15	22.47	23.17	22.95	23.65	24.12
8H	4H	20.40	21.19	20.86	21.63	22.10	21.83	22.61	22.29	23.06	23.52
	6H	20.80	21.45	21.29	21.94	22.42	22.42	23.07	22.92	23.56	24.04
	8H	20.94	21.53	21.46	22.04	22.52	22.64	23.23	23.16	23.74	24.22
	12H	21.07	21.58	21.58	22.07	22.64	22.82	23.34	23.33	23.83	24.40
12H	4H	20.44	21.15	20.93	21.62	22.09	21.82	22.52	22.30	23.00	23.47
	6H	20.85	21.44	21.37	21.95	22.43	22.42	23.00	22.93	23.51	24.00
	8H	21.05	21.56	21.56	22.05	22.62	22.68	23.19	23.19	23.69	24.25