

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: P242763

Luminaire Tested: S124RDRP-S795D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242763
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-S795D940-X4F0-XX-UDD-A-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

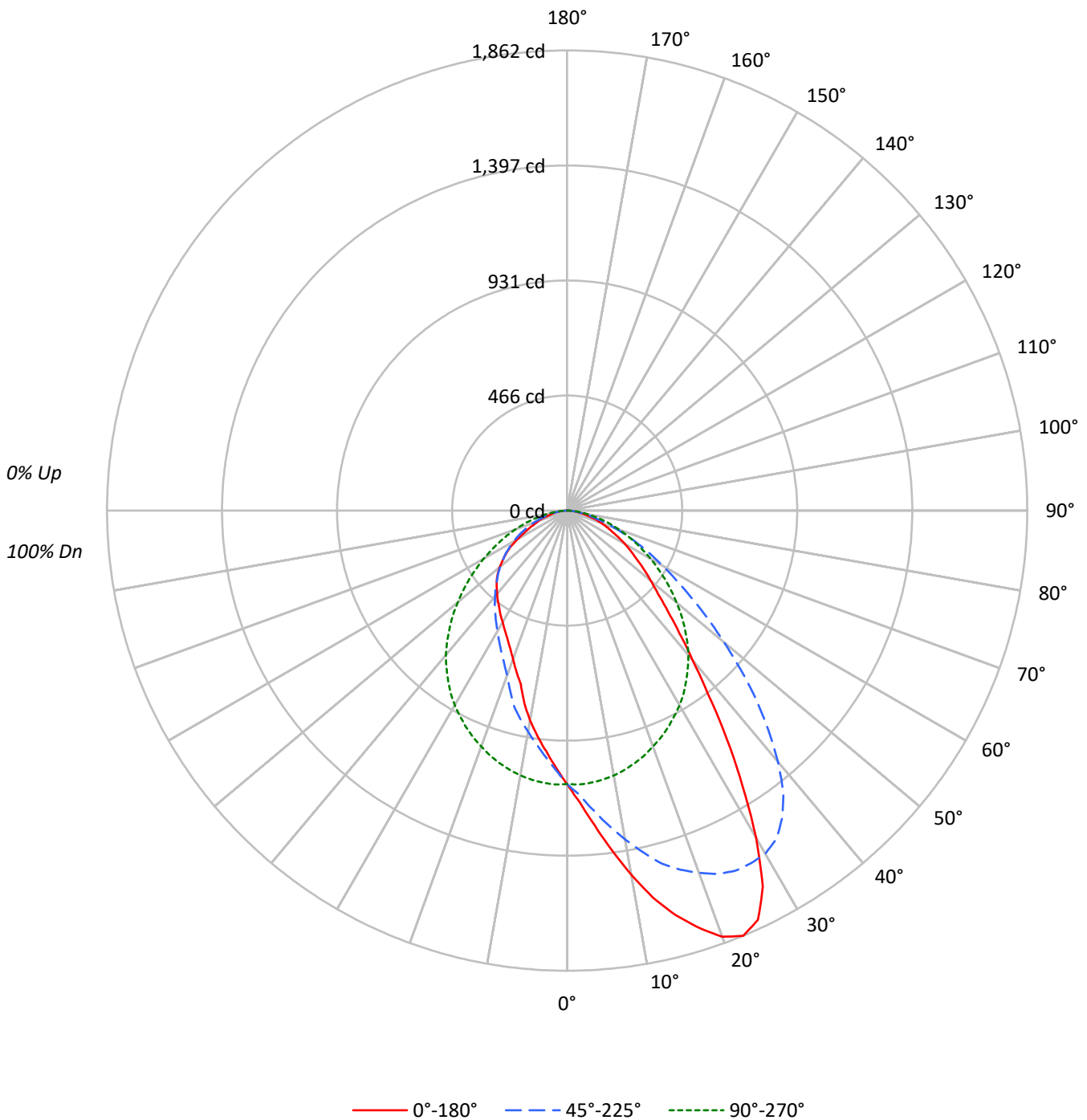
Lumens per Lamp: N/A
Luminaire Lumens: 2797.4 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.22 / 1.39
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

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	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	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°	9836	9836	9836	9836	9836
5°	11410	10861	9866	8927	8720
10°	13498	12193	9823	8206	7783
15°	15592	13614	9733	7582	6687
20°	17359	14761	9608	6706	6048
25°	17920	15778	9485	6179	5615
30°	15688	16456	9335	5789	5355
35°	12211	16465	9115	5496	5197
40°	9158	15402	8863	5261	5111
45°	7231	13592	8458	5061	5067
50°	6104	11438	7990	4890	4920
55°	5320	9480	7476	4705	4657
60°	4788	7934	6944	4439	4121
65°	4219	6611	6367	4135	3544
70°	3800	5284	5770	3732	3199
75°	3184	4104	5114	3276	2727
80°	2693	3102	4361	2718	2554
85°	2274	2458	3406	2407	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 14517 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.8
10°-20°	323.6	11.6
20°-30°	506.9	18.1
30°-40°	562.9	20.1
40°-50°	498.8	17.8
50°-60°	388.7	13.9
60°-70°	254.3	9.1
70°-80°	124.7	4.5
80°-90°	30.4	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°	937.6	33.5
0°-40°	1500.5	53.6
0°-60°	2388.0	85.4
0°-90°	2797.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1107	1107	1107	1107	1107	
5°	1279	1217	1106	1000	977	129
15°	1694	1479	1058	824	727	482
25°	1827	1609	967	630	572	816
35°	1125	1517	840	506	479	704
45°	575	1081	673	403	403	454
55°	343	612	482	304	300	312
65°	201	314	303	197	168	201
75°	93	120	149	95	79	102
85°	22	24	33	24	22	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°	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6
2.5°	1182.4	1186.4	1182.4	1182.0	1177.5	1176.2	1174.4	1168.6	1157.9	1151.6	1153.0
5°	1278.7	1289.9	1283.6	1282.7	1272.9	1263.1	1256.9	1242.6	1227.4	1217.2	1208.7
7.5°	1385.7	1392.4	1388.0	1383.0	1366.1	1360.8	1346.0	1329.1	1303.7	1284.5	1267.1
10°	1495.4	1500.8	1499.0	1487.4	1475.8	1452.2	1438.8	1412.5	1378.1	1350.9	1325.5
12.5°	1603.3	1609.1	1589.9	1593.5	1569.0	1551.6	1528.4	1493.6	1452.6	1415.6	1382.2
15°	1694.3	1687.1	1687.1	1678.2	1653.7	1627.8	1606.0	1571.2	1521.3	1479.4	1435.2
17.5°	1769.2	1772.3	1768.7	1746.0	1728.1	1701.8	1662.6	1622.9	1579.7	1523.5	1479.8
20°	1835.1	1835.1	1831.1	1816.9	1791.9	1763.4	1720.1	1676.0	1617.1	1560.5	1509.7
22.5°	1861.9	1863.7	1858.8	1847.6	1825.8	1798.1	1762.9	1717.9	1656.8	1591.3	1525.3
25°	1827.1	1835.6	1836.5	1833.4	1826.7	1809.7	1778.1	1732.2	1677.8	1608.7	1540.9
27.5°	1714.8	1725.9	1730.4	1740.2	1758.5	1765.1	1761.1	1730.4	1677.8	1609.5	1542.2
30°	1528.4	1537.3	1566.3	1604.2	1633.6	1660.4	1683.6	1689.8	1663.0	1603.3	1531.5
32.5°	1321.5	1334.4	1363.4	1404.9	1458.8	1508.8	1568.1	1599.7	1605.5	1575.7	1510.6
35°	1125.3	1134.3	1161.0	1203.8	1262.7	1330.0	1412.5	1476.7	1520.4	1517.3	1476.7
37.5°	937.2	949.7	976.9	1012.1	1070.1	1156.1	1234.1	1320.2	1398.7	1437.0	1416.5
40°	789.2	789.6	815.9	852.5	906.0	978.7	1065.6	1163.7	1253.7	1327.3	1341.6
42.5°	672.4	672.4	687.5	727.6	762.4	829.7	911.8	1009.0	1118.2	1206.0	1249.7
45°	575.2	579.2	593.4	617.1	647.4	705.3	771.8	862.3	980.4	1081.2	1144.1
47.5°	498.5	505.6	514.1	535.5	560.4	601.0	657.6	742.4	840.4	952.4	1039.3
50°	441.4	442.3	453.9	464.6	485.5	516.3	564.5	632.2	720.5	827.1	926.5
52.5°	392.4	391.9	397.7	412.0	428.0	450.3	486.9	547.1	622.9	715.6	819.0
55°	343.3	345.5	350.9	361.6	374.5	391.5	422.2	468.6	530.1	611.7	704.9
57.5°	305.9	307.2	312.1	316.1	328.6	341.1	366.0	399.5	453.4	521.7	613.1
60°	269.3	269.7	271.1	277.8	287.1	298.7	314.3	341.5	385.2	446.3	515.0
62.5°	233.6	234.5	236.7	241.2	247.9	255.0	271.5	292.0	326.4	376.3	436.5
65°	200.6	201.1	204.2	206.0	211.8	218.9	231.0	245.7	270.6	314.3	361.1
67.5°	173.0	173.0	173.0	175.7	180.1	185.0	193.1	205.5	225.6	253.7	297.4
70°	146.2	146.2	147.1	148.5	150.7	154.7	158.7	167.6	181.5	203.3	235.0
72.5°	121.3	121.7	122.6	122.6	123.5	126.6	129.3	134.2	143.6	158.7	182.8
75°	92.7	94.1	96.3	98.1	100.3	99.9	103.0	106.6	109.7	119.5	134.2
77.5°	73.1	72.2	72.2	74.0	74.5	74.9	77.1	80.3	82.9	88.3	93.6
80°	52.6	52.6	53.9	54.4	53.9	54.4	56.6	58.0	58.9	60.6	65.5
82.5°	36.6	37.5	36.6	37.0	37.5	37.9	39.7	39.7	40.6	41.0	42.4
85°	22.3	22.7	23.2	22.3	22.3	22.3	23.2	23.6	24.5	24.1	25.0
87.5°	9.8	9.4	9.8	9.8	10.3	9.8	10.3	11.1	10.3	10.7	10.7
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°	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6
2.5°	1148.5	1142.3	1139.2	1132.0	1123.6	1119.1	1115.1	1109.3	1101.7	1093.7	1087.9
5°	1198.0	1187.3	1173.9	1157.9	1143.6	1129.8	1117.8	1105.7	1091.9	1077.6	1063.4
7.5°	1247.1	1227.9	1207.4	1182.9	1159.2	1137.4	1117.8	1098.6	1076.7	1057.1	1038.8
10°	1298.8	1270.2	1238.6	1205.2	1171.7	1142.7	1114.2	1088.3	1059.8	1034.4	1013.0
12.5°	1340.7	1305.9	1266.2	1222.5	1180.6	1144.1	1110.2	1074.5	1041.1	1013.0	982.7
15°	1388.0	1342.0	1290.8	1240.8	1188.7	1140.9	1096.8	1057.6	1020.6	981.8	954.6
17.5°	1420.5	1367.4	1306.8	1248.8	1189.1	1133.8	1083.9	1038.4	996.0	957.3	925.2
20°	1449.0	1388.8	1319.7	1251.5	1182.4	1122.2	1067.4	1015.7	971.5	928.7	895.3
22.5°	1465.1	1396.9	1319.7	1247.5	1175.3	1108.8	1047.3	992.9	943.9	901.1	863.2
25°	1466.0	1394.6	1317.5	1235.5	1157.0	1087.9	1025.5	967.1	913.6	870.8	831.5
27.5°	1462.4	1379.9	1302.3	1219.0	1138.3	1064.7	1000.1	938.1	885.0	839.5	799.4
30°	1451.7	1361.6	1276.9	1189.5	1107.5	1037.5	968.4	909.5	853.8	806.1	765.5
32.5°	1428.5	1339.4	1246.6	1156.6	1073.2	1000.5	935.9	876.6	822.2	773.1	729.4
35°	1396.4	1305.9	1206.9	1115.1	1033.5	958.6	897.1	840.0	787.8	735.7	690.2
37.5°	1359.4	1264.9	1167.3	1066.5	985.3	914.0	856.5	801.7	750.8	703.1	652.7
40°	1302.3	1218.1	1116.4	1016.6	932.7	864.5	812.4	763.8	712.5	665.2	614.8
42.5°	1233.2	1164.6	1061.6	961.3	878.8	813.7	766.0	718.7	673.2	627.8	574.7
45°	1154.8	1100.4	1004.1	907.8	824.4	759.3	714.7	672.8	631.8	588.1	538.6
47.5°	1067.4	1027.3	943.4	842.7	764.6	704.9	662.1	627.3	591.2	547.1	502.5
50°	975.5	951.9	871.7	781.6	708.0	654.1	609.9	577.8	548.8	506.9	468.1
52.5°	877.4	867.6	803.0	717.8	647.4	594.8	558.7	530.6	501.1	468.1	432.5
55°	777.6	784.3	726.7	652.3	585.4	540.8	506.5	482.4	457.4	428.0	399.9
57.5°	673.7	699.1	656.3	589.0	524.3	482.4	456.1	434.7	413.8	388.8	363.4
60°	582.3	602.8	581.0	523.4	468.6	430.3	406.2	390.6	369.6	347.3	329.0
62.5°	493.1	515.4	504.7	461.0	411.1	379.4	358.9	344.6	330.4	311.7	292.5
65°	421.3	435.6	429.4	397.3	361.1	333.1	313.4	302.7	288.5	274.2	257.3
67.5°	337.1	365.2	360.7	342.9	308.1	285.8	272.0	262.2	248.8	238.1	226.0
70°	265.3	290.7	290.3	276.4	259.5	239.0	230.1	222.0	210.4	200.2	190.8
72.5°	205.1	227.8	232.3	222.5	212.2	198.0	189.5	184.6	173.4	167.2	160.1
75°	152.0	169.0	173.4	173.4	168.1	160.1	152.5	148.9	140.9	134.6	130.2
77.5°	107.0	118.6	125.3	126.6	127.1	123.9	116.8	114.1	107.9	105.7	100.8
80°	70.4	77.6	85.6	88.3	90.5	89.6	86.9	85.2	79.4	77.1	75.3
82.5°	43.2	46.4	52.6	59.3	58.0	61.1	58.9	57.5	53.5	53.1	51.3
85°	25.4	25.9	26.8	30.8	33.0	33.9	34.3	33.4	32.1	32.1	29.0
87.5°	10.7	10.3	11.1	11.1	11.6	13.4	14.7	15.2	13.8	12.5	11.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6
2.5°	1081.6	1077.2	1071.4	1064.7	1056.7	1049.5	1046.4	1049.1	1050.4	1046.9	1046.4
5°	1053.6	1042.4	1033.5	1020.1	1009.4	1000.5	994.3	991.6	992.5	985.3	983.6
7.5°	1022.3	1010.3	995.6	980.4	966.2	953.7	947.0	943.9	936.3	933.2	928.3
10°	992.5	974.6	960.4	941.6	924.7	909.1	901.5	895.3	887.7	884.1	876.6
12.5°	961.7	940.3	924.3	904.6	887.3	867.6	860.5	847.6	834.6	826.2	815.9
15°	933.2	908.2	889.0	865.9	845.3	823.9	804.8	783.4	775.3	758.4	748.6
17.5°	899.3	873.4	852.0	822.2	791.4	765.5	744.1	721.8	709.8	698.2	693.3
20°	865.9	842.7	809.7	773.6	738.3	708.9	692.4	679.0	665.7	658.1	652.7
22.5°	834.2	803.0	763.3	723.6	688.4	667.0	653.6	639.8	629.5	622.4	614.8
25°	798.1	759.3	718.7	674.1	650.1	630.0	614.8	603.7	597.0	587.6	584.1
27.5°	762.9	716.0	670.1	639.8	614.8	595.7	581.8	573.8	564.9	558.7	553.8
30°	721.0	673.2	633.1	604.6	579.2	564.0	553.3	543.5	536.8	531.9	528.3
32.5°	679.5	631.8	599.7	568.5	549.7	535.0	523.4	516.7	511.8	505.2	503.4
35°	639.8	597.4	568.0	540.4	519.9	506.5	497.6	490.0	485.5	483.8	482.4
37.5°	601.0	565.8	533.2	511.0	491.8	481.5	469.9	466.4	463.2	459.2	461.0
40°	564.5	531.9	503.8	479.7	465.0	453.4	447.2	442.7	440.1	440.1	440.1
42.5°	532.8	501.1	473.9	453.0	438.3	428.9	421.8	418.2	417.8	417.3	420.0
45°	499.8	470.4	442.7	424.9	412.4	402.6	398.6	395.5	395.5	397.3	397.7
47.5°	466.8	439.2	416.9	396.4	384.8	378.5	375.0	373.2	373.2	375.4	377.2
50°	436.9	409.7	387.9	370.1	359.4	353.6	350.4	349.6	350.4	350.4	353.6
52.5°	404.4	380.8	359.4	345.1	332.6	327.3	325.9	324.6	325.0	326.8	327.7
55°	372.7	350.9	330.4	316.1	307.2	303.6	299.6	300.1	299.2	300.1	300.1
57.5°	340.6	321.5	301.4	289.8	282.2	276.9	272.4	273.8	272.4	272.4	272.0
60°	309.9	288.5	273.3	263.1	254.1	249.7	245.7	246.6	245.2	244.3	242.5
62.5°	276.4	259.5	245.2	235.4	228.7	223.4	219.4	218.0	214.5	210.9	206.4
65°	244.3	229.6	216.7	207.3	200.6	196.6	193.5	190.8	184.1	177.0	173.4
67.5°	212.7	202.0	189.5	181.5	176.1	170.8	165.0	160.1	153.4	148.9	146.7
70°	182.4	172.1	161.8	154.3	148.5	143.6	136.9	133.8	129.3	127.5	125.3
72.5°	153.4	144.0	134.6	128.0	121.7	118.2	113.2	110.1	108.8	108.3	106.1
75°	123.9	116.4	109.2	103.0	98.1	95.4	93.2	91.0	90.1	86.1	83.8
77.5°	95.4	90.1	85.6	80.7	77.6	75.8	70.9	67.8	66.0	63.8	63.3
80°	70.4	66.9	62.4	59.7	54.8	53.1	51.3	50.8	50.4	49.9	49.5
82.5°	48.6	45.0	40.6	39.2	38.8	37.9	37.0	36.6	36.1	36.6	36.6
85°	26.8	25.0	25.0	24.5	24.1	23.6	23.2	23.2	22.7	23.2	22.7
87.5°	11.1	10.7	10.7	9.8	10.3	10.3	9.8	9.8	10.3	9.4	9.4
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: P242763

CATALOG NUMBER: S124RDRP-S795D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1106.6	1106.6	1106.6	1106.6
2.5°	1043.8	1044.6	1041.5	1040.6
5°	980.0	979.1	976.9	977.3
7.5°	924.7	921.6	923.8	920.2
10°	874.8	869.9	865.9	862.3
12.5°	806.6	802.5	796.7	799.0
15°	742.8	736.1	725.4	726.7
17.5°	685.7	686.6	680.4	682.2
20°	643.4	640.3	640.7	639.4
22.5°	613.9	609.9	605.9	602.8
25°	580.1	577.4	573.4	572.5
27.5°	550.2	549.7	548.0	545.7
30°	524.8	523.9	523.0	521.7
32.5°	502.0	501.6	500.7	501.1
35°	480.6	480.2	479.3	478.9
37.5°	460.6	461.9	461.0	461.0
40°	439.6	440.1	441.0	440.5
42.5°	422.2	422.2	423.6	421.8
45°	400.8	403.5	403.1	403.1
47.5°	378.1	381.2	381.7	381.7
50°	355.8	354.9	356.2	355.8
52.5°	328.6	329.0	328.6	328.2
55°	300.5	301.0	300.1	300.5
57.5°	270.6	268.9	270.2	269.3
60°	238.1	234.5	233.6	231.8
62.5°	201.5	199.3	195.7	198.0
65°	169.9	168.1	166.8	168.5
67.5°	144.5	143.6	143.6	142.7
70°	125.3	123.9	123.9	123.1
72.5°	105.7	104.3	104.8	104.3
75°	81.1	78.9	78.9	79.4
77.5°	63.3	62.9	63.8	62.4
80°	49.5	49.0	48.6	49.9
82.5°	35.7	35.7	35.7	37.5
85°	23.2	22.3	23.2	22.3
87.5°	10.3	9.8	9.4	9.8
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242763

CATALOG NUMBER: S124RDRP-S795D940-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	18.57	17.41	18.88	19.20	18.86	20.38	19.23	20.70	21.01
	3H	18.27	19.64	18.65	19.96	20.33	20.32	21.68	20.69	22.01	22.37
	4H	18.70	19.99	19.10	20.33	20.71	20.83	22.11	21.23	22.46	22.84
	6H	18.98	20.16	19.39	20.53	20.92	21.18	22.37	21.60	22.73	23.13
	8H	19.06	20.18	19.48	20.57	20.97	21.29	22.41	21.71	22.80	23.20
	12H	19.11	20.18	19.54	20.57	21.00	21.35	22.42	21.78	22.81	23.23
4H	2H	18.30	19.58	18.70	19.93	20.31	19.37	20.65	19.77	21.00	21.38
	3H	19.54	20.60	19.95	21.00	21.40	21.11	22.17	21.52	22.57	22.97
	4H	20.00	20.96	20.44	21.37	21.81	21.74	22.69	22.17	23.11	23.55
	6H	20.33	21.16	20.78	21.60	22.06	22.19	23.02	22.65	23.47	23.93
	8H	20.42	21.20	20.89	21.64	22.11	22.33	23.11	22.79	23.55	24.02
	12H	20.49	21.18	20.97	21.66	22.13	22.42	23.11	22.90	23.59	24.06
8H	4H	20.41	21.18	20.87	21.63	22.09	21.85	22.63	22.31	23.07	23.54
	6H	20.79	21.43	21.29	21.92	22.40	22.39	23.03	22.89	23.52	24.00
	8H	20.93	21.50	21.44	22.01	22.50	22.58	23.16	23.10	23.67	24.16
	12H	21.04	21.55	21.55	22.04	22.60	22.73	23.24	23.24	23.73	24.30
12H	4H	20.44	21.13	20.92	21.61	22.08	21.84	22.53	22.32	23.01	23.48
	6H	20.84	21.42	21.35	21.93	22.41	22.38	22.96	22.90	23.47	23.96
	8H	21.02	21.53	21.53	22.02	22.59	22.61	23.12	23.12	23.61	24.18