

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: P243451

Luminaire Tested: S123RDRP-H775D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-H775D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

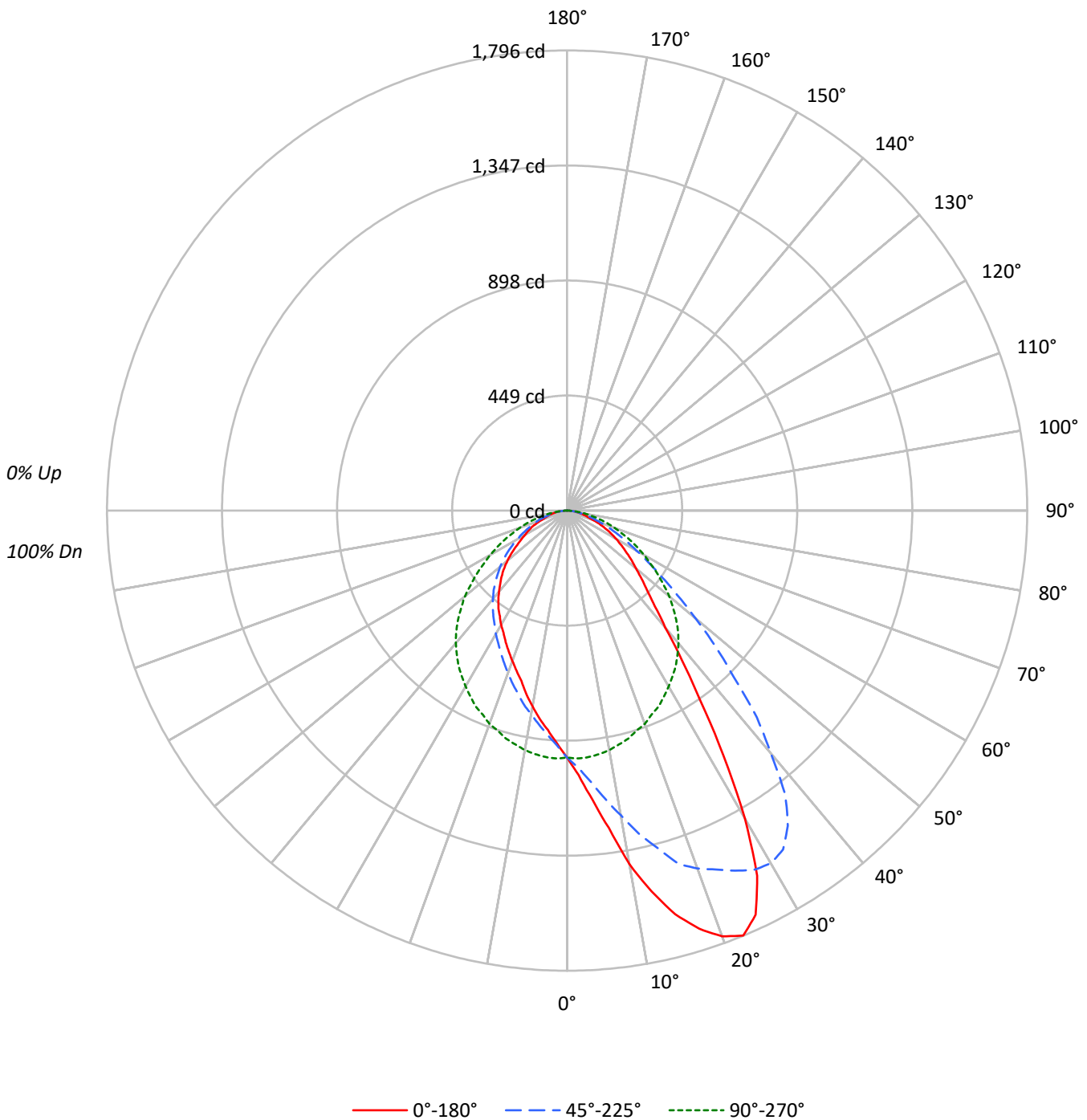
Lumens per Lamp: N/A
Luminaire Lumens: 2512.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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	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	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49					49			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44					44			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39					39			
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11686	11686	11686	11686	11686
5°	13777	12930	11750	10682	10464
10°	17246	14868	11682	9929	9550
15°	20466	17108	11565	9287	8650
20°	22810	19175	11426	8715	8054
25°	23282	20738	11285	8196	7583
30°	19402	22250	11094	7790	7212
35°	13403	22218	10940	7428	6912
40°	9420	19562	10690	7127	6548
45°	7563	15755	10311	6807	6193
50°	6594	12333	9821	6428	5731
55°	5911	9518	9087	6008	5101
60°	5348	7578	8395	5450	4623
65°	4681	6221	7735	4930	4322
70°	3778	5061	6964	4529	3657
75°	3274	3976	6065	3822	3587
80°	3022	3253	5172	3665	3602
85°	2656	2782	4172	3296	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 19744 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.8
10°-20°	297.7	11.9
20°-30°	477.1	19.0
30°-40°	517.9	20.6
40°-50°	443.7	17.7
50°-60°	336.3	13.4
60°-70°	214.9	8.6
70°-80°	102.8	4.1
80°-90°	27.0	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°	869.4	34.6
0°-40°	1387.3	55.2
0°-60°	2167.4	86.3
0°-90°	2512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	964	964	964	964	964	
5°	1132	1063	966	878	860	116
15°	1631	1363	922	740	689	462
25°	1741	1551	844	613	567	772
35°	906	1502	739	502	467	582
45°	441	919	602	397	361	349
55°	280	450	430	284	241	252
65°	163	217	270	172	151	162
75°	70	85	130	82	77	76
85°	19	20	30	24	22	22
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°	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1
2.5°	1033.2	1034.4	1032.4	1031.9	1031.5	1024.9	1022.8	1019.4	1007.8	1004.9	1002.8
5°	1132.3	1128.9	1132.7	1125.6	1117.7	1113.1	1105.6	1089.0	1074.4	1062.7	1055.2
7.5°	1249.6	1250.9	1247.1	1240.5	1224.7	1218.0	1197.6	1177.6	1158.5	1134.3	1116.4
10°	1401.2	1391.2	1393.3	1372.4	1355.8	1335.8	1307.9	1275.9	1242.2	1208.0	1182.6
12.5°	1521.9	1529.0	1524.0	1514.0	1481.9	1462.4	1437.0	1390.3	1337.1	1291.3	1252.6
15°	1630.9	1621.4	1622.6	1598.5	1586.8	1568.9	1526.9	1480.7	1446.1	1363.3	1317.5
17.5°	1710.9	1710.0	1708.8	1688.4	1674.2	1636.8	1593.9	1546.4	1503.2	1445.7	1388.3
20°	1768.3	1774.6	1772.9	1756.2	1731.3	1695.1	1669.2	1610.1	1539.0	1486.5	1416.2
22.5°	1795.8	1796.2	1797.0	1789.1	1772.5	1749.2	1712.5	1665.1	1601.8	1516.1	1437.8
25°	1740.8	1742.9	1753.7	1760.4	1765.0	1754.6	1735.4	1692.6	1638.0	1550.6	1469.4
27.5°	1606.0	1612.6	1624.7	1664.7	1680.9	1703.4	1711.3	1694.2	1653.8	1581.0	1488.6
30°	1386.2	1404.9	1416.6	1461.9	1525.6	1585.6	1613.9	1641.8	1638.0	1589.7	1496.1
32.5°	1134.8	1146.8	1180.5	1229.2	1279.6	1367.5	1465.7	1533.1	1571.0	1568.5	1502.3
35°	905.8	923.3	952.0	989.1	1058.6	1149.7	1260.9	1367.0	1461.9	1501.5	1477.8
37.5°	735.1	736.8	763.9	816.3	859.6	939.9	1040.3	1171.4	1295.9	1399.1	1422.0
40°	595.3	606.9	621.1	654.0	705.2	782.2	848.8	977.8	1106.9	1236.3	1328.7
42.5°	507.0	507.0	522.8	543.6	577.8	624.0	703.5	820.5	936.6	1095.6	1199.7
45°	441.2	445.4	452.5	465.8	490.0	525.8	587.4	666.9	785.5	919.1	1075.6
47.5°	393.8	393.4	399.6	407.5	426.3	453.3	489.5	554.1	641.9	785.9	924.1
50°	349.7	351.3	355.9	362.6	375.1	394.2	417.1	465.8	539.9	654.0	798.8
52.5°	315.5	315.1	318.9	323.0	332.6	343.4	363.8	400.0	451.2	542.0	662.3
55°	279.7	281.4	286.0	288.5	296.4	303.5	320.5	340.9	382.1	450.4	559.9
57.5°	248.9	251.0	253.5	256.0	261.4	268.5	282.6	295.1	325.1	374.2	461.6
60°	220.6	219.8	222.7	226.9	229.8	236.0	243.9	256.8	277.7	312.6	376.7
62.5°	192.3	192.7	193.1	195.6	201.1	206.5	213.5	223.1	235.6	261.4	306.8
65°	163.2	163.6	164.4	166.9	172.3	175.7	183.2	191.5	201.5	216.9	248.5
67.5°	137.4	139.0	139.0	141.1	143.2	146.5	151.9	158.2	166.5	177.7	198.1
70°	106.6	106.1	108.2	112.4	114.5	120.3	124.0	128.2	135.7	142.8	160.3
72.5°	85.8	85.8	85.8	87.4	87.8	89.1	91.6	100.3	106.1	113.2	122.8
75°	69.9	70.3	70.3	70.8	71.2	72.4	73.3	75.8	77.4	84.9	90.7
77.5°	55.8	56.2	56.2	56.6	57.0	57.4	59.1	59.1	60.4	62.0	64.5
80°	43.3	42.9	42.9	43.3	43.3	44.5	44.5	45.4	45.8	46.6	47.9
82.5°	30.8	30.4	30.8	30.4	30.8	31.2	32.1	31.6	32.5	33.3	33.7
85°	19.1	19.6	19.6	20.4	20.0	19.6	20.0	20.0	20.0	20.0	20.8
87.5°	8.3	9.2	9.2	8.7	9.2	9.2	8.3	9.2	9.2	9.2	9.6
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°	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1
2.5°	1001.5	999.9	993.6	987.8	979.1	975.3	970.3	968.2	961.6	952.4	948.3
5°	1048.2	1035.7	1023.6	1009.0	997.0	982.8	974.9	965.7	951.6	938.7	929.5
7.5°	1097.7	1079.4	1056.9	1032.8	1011.1	990.7	973.2	958.7	940.4	922.5	908.3
10°	1152.2	1121.0	1084.8	1054.0	1022.8	993.2	971.2	949.1	925.4	902.9	885.8
12.5°	1210.9	1166.8	1123.1	1076.9	1030.3	996.1	963.3	934.9	908.3	884.6	864.2
15°	1271.7	1211.3	1155.6	1103.5	1038.6	992.8	956.6	921.6	888.3	859.2	839.2
17.5°	1315.0	1245.9	1175.5	1101.9	1046.1	989.5	944.5	900.4	869.6	839.6	812.6
20°	1355.0	1276.7	1193.0	1124.3	1046.5	977.4	928.3	885.8	842.9	810.9	788.0
22.5°	1372.0	1301.3	1216.8	1121.4	1043.6	972.8	909.6	861.7	823.4	788.4	758.4
25°	1375.4	1296.3	1209.7	1117.7	1032.4	955.8	891.7	843.8	793.8	757.6	734.3
27.5°	1389.9	1281.7	1196.8	1105.2	1018.6	938.7	871.3	818.0	771.4	732.6	702.7
30°	1393.7	1275.5	1169.3	1081.9	992.8	914.5	846.3	792.6	741.8	702.2	675.2
32.5°	1395.3	1267.1	1140.6	1044.8	959.9	886.2	823.8	765.5	717.2	675.6	647.7
35°	1389.5	1255.5	1106.0	1002.8	921.2	848.8	790.9	739.3	685.6	646.5	616.9
37.5°	1366.6	1237.2	1086.5	953.7	875.8	807.6	758.4	707.7	658.1	615.7	585.3
40°	1323.3	1210.5	1049.8	912.5	824.2	763.0	717.2	675.6	625.7	584.9	554.9
42.5°	1254.2	1174.3	1016.1	865.8	773.0	715.2	676.9	641.1	596.1	557.4	524.5
45°	1151.8	1123.5	971.2	818.4	717.2	662.7	629.4	601.5	560.7	525.3	494.9
47.5°	1041.1	1047.3	925.8	770.1	666.4	614.4	585.3	560.7	529.9	492.0	464.1
50°	913.3	947.4	862.1	721.4	615.7	564.5	535.7	520.8	492.0	460.4	434.2
52.5°	796.3	850.4	797.6	668.1	565.7	515.3	488.7	473.7	454.6	428.3	401.7
55°	675.2	743.9	705.6	610.7	514.9	464.1	441.7	430.0	414.2	393.8	369.6
57.5°	574.9	648.1	624.0	550.3	465.4	419.6	399.6	386.3	376.7	358.0	338.4
60°	476.6	544.5	534.9	480.8	416.3	372.6	357.2	346.3	338.4	324.7	305.5
62.5°	384.6	450.4	456.2	413.8	368.4	328.9	314.7	307.2	301.0	290.1	272.7
65°	305.1	363.0	375.1	342.6	318.0	288.1	274.3	269.7	265.2	252.7	239.4
67.5°	238.9	284.3	300.1	281.8	264.3	246.8	236.0	229.8	226.5	219.0	209.8
70°	182.7	221.9	235.2	227.3	215.6	209.0	200.6	196.5	193.1	183.6	178.6
72.5°	137.0	163.6	180.2	177.7	175.3	170.7	165.7	164.4	159.4	153.2	148.6
75°	100.3	115.7	130.7	136.1	135.3	137.0	131.5	129.5	126.5	122.0	118.2
77.5°	72.0	81.2	91.6	98.2	101.6	102.0	102.0	100.7	98.7	95.3	92.4
80°	50.0	52.0	61.6	67.9	71.2	73.7	73.7	74.1	72.0	70.8	68.7
82.5°	34.6	35.8	37.9	42.9	47.0	50.0	50.4	50.0	49.1	48.7	45.8
85°	21.6	21.2	21.2	22.5	25.8	28.7	29.1	30.0	29.6	29.1	26.2
87.5°	9.2	9.2	9.6	9.2	10.4	10.8	11.7	13.7	13.3	11.2	10.4
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°	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1	964.1
2.5°	945.8	940.4	935.4	929.9	923.3	917.0	916.2	915.4	917.5	913.3	911.6
5°	922.5	912.0	904.1	894.2	887.1	877.9	872.9	871.7	871.3	868.8	865.4
7.5°	897.1	885.8	874.6	863.3	851.7	842.1	836.7	833.8	831.3	827.1	823.8
10°	873.3	859.2	847.1	831.7	819.2	806.7	801.7	797.6	795.1	789.2	784.7
12.5°	846.7	828.8	815.5	798.8	787.6	776.8	768.9	760.9	755.1	746.4	742.6
15°	823.4	804.7	782.2	772.2	756.4	740.1	731.4	731.4	719.3	712.2	707.7
17.5°	792.2	775.9	760.1	739.7	717.2	707.7	697.7	688.9	680.6	678.5	670.2
20°	764.7	745.5	729.3	707.2	686.8	675.6	664.0	654.4	648.1	642.3	637.7
22.5°	737.6	718.5	693.5	671.9	658.1	643.1	630.7	622.3	616.9	608.2	604.0
25°	709.3	686.4	664.0	642.7	625.7	612.8	599.8	595.3	585.7	581.1	575.3
27.5°	681.0	653.5	632.3	614.0	594.9	582.4	573.6	565.3	557.0	554.5	551.1
30°	649.4	624.0	603.6	585.7	567.4	556.6	546.1	538.7	531.6	526.2	522.4
32.5°	617.7	596.5	577.0	556.1	539.5	527.8	519.1	512.4	509.1	499.9	496.6
35°	588.6	567.0	546.1	526.6	513.3	502.0	494.1	487.9	480.8	475.0	471.6
37.5°	558.6	539.1	517.8	501.2	486.2	477.0	468.3	460.0	454.6	451.2	447.1
40°	529.5	508.7	492.4	474.1	460.8	450.4	441.2	435.0	428.3	425.4	420.0
42.5°	502.0	482.0	463.3	446.7	434.6	424.6	415.9	408.8	403.4	398.0	395.0
45°	470.4	452.9	435.8	419.2	407.9	397.1	387.5	381.3	373.8	369.2	367.6
47.5°	443.7	425.4	407.1	391.7	380.1	368.4	360.5	353.0	346.8	342.2	339.7
50°	412.1	395.0	380.1	364.7	353.4	340.9	331.4	324.3	317.2	313.9	309.7
52.5°	385.1	368.4	350.1	336.3	323.4	312.6	303.9	298.1	291.8	286.8	283.9
55°	351.3	335.1	320.5	306.0	293.1	284.3	277.2	267.2	261.8	256.8	248.9
57.5°	321.8	306.4	291.0	276.8	264.7	254.3	245.6	238.9	231.9	228.1	222.7
60°	290.6	274.3	260.2	249.3	236.0	224.8	219.0	211.0	205.2	199.4	197.7
62.5°	259.8	244.8	230.6	219.4	207.3	198.6	191.1	187.3	181.5	176.9	175.3
65°	227.7	215.2	201.9	189.4	181.9	171.9	167.8	161.5	158.2	156.1	155.7
67.5°	196.1	184.8	172.8	163.2	156.1	149.4	144.4	141.9	138.6	136.1	134.0
70°	167.3	156.5	146.1	138.2	132.8	127.8	124.5	119.9	116.6	113.2	108.6
72.5°	139.0	130.3	121.6	115.3	109.9	107.0	102.4	95.3	92.0	91.2	90.7
75°	112.8	103.2	97.0	93.7	88.7	81.6	78.7	77.8	77.4	76.6	76.6
77.5°	87.0	81.2	77.0	69.9	67.4	67.0	64.9	64.5	63.7	64.1	64.1
80°	63.3	59.9	54.9	52.9	52.0	52.5	51.6	52.0	51.2	51.6	50.8
82.5°	42.0	39.1	40.0	38.7	38.7	39.5	39.1	37.9	37.9	37.5	37.5
85°	25.0	24.6	25.4	25.4	25.0	23.7	24.6	24.1	22.9	23.3	23.3
87.5°	10.8	10.8	10.8	10.4	10.8	10.4	10.4	10.4	9.2	9.2	9.2
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: P243451

CATALOG NUMBER: S123RDRP-H775D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	964.1	964.1	964.1	964.1
2.5°	912.5	911.6	910.4	909.1
5°	865.4	861.7	861.3	860.0
7.5°	821.3	819.6	816.7	820.1
10°	780.9	782.2	779.3	775.9
12.5°	738.9	736.4	731.8	734.3
15°	701.8	697.7	695.2	689.3
17.5°	663.1	659.8	659.8	656.0
20°	629.4	626.1	626.9	624.4
22.5°	601.1	598.6	594.9	595.3
25°	574.5	570.7	566.5	567.0
27.5°	544.9	541.6	540.7	537.8
30°	518.7	515.8	515.3	515.3
32.5°	493.3	492.0	490.0	488.7
35°	471.2	469.6	466.2	467.1
37.5°	443.7	442.1	441.7	441.2
40°	417.9	416.7	413.4	413.8
42.5°	392.1	390.0	388.0	387.1
45°	364.2	363.8	360.5	361.3
47.5°	337.6	336.8	335.1	333.0
50°	308.0	307.6	306.4	303.9
52.5°	279.3	278.1	275.6	273.1
55°	246.8	243.1	243.5	241.4
57.5°	220.2	218.5	215.2	214.0
60°	194.4	192.7	192.3	190.7
62.5°	172.8	171.1	169.8	169.8
65°	153.2	151.1	150.7	150.7
67.5°	131.5	129.5	129.0	128.2
70°	104.5	104.1	103.2	103.2
72.5°	89.9	89.5	89.9	88.2
75°	76.6	76.2	76.2	76.6
77.5°	63.7	63.7	63.3	63.3
80°	50.4	50.8	50.4	51.6
82.5°	37.9	37.0	37.5	36.6
85°	23.3	23.3	22.5	22.5
87.5°	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243451
 CATALOG NUMBER: S123RDRP-H775D940-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	16.93	18.43	17.29	18.74	19.06	19.63	21.13	19.99	21.44	21.76
	3H	18.12	19.46	18.49	19.79	20.15	21.05	22.40	21.43	22.73	23.09
	4H	18.47	19.73	18.87	20.08	20.46	21.56	22.82	21.96	23.17	23.55
	6H	18.74	19.91	19.16	20.27	20.67	21.90	23.07	22.32	23.43	23.83
	8H	18.83	19.94	19.26	20.33	20.73	22.00	23.11	22.43	23.50	23.90
	12H	18.90	19.95	19.33	20.34	20.77	22.06	23.12	22.49	23.50	23.93
4H	2H	17.88	19.14	18.28	19.49	19.87	19.91	21.17	20.31	21.52	21.90
	3H	19.15	20.19	19.56	20.59	20.99	21.62	22.67	22.04	23.07	23.47
	4H	19.55	20.49	19.99	20.91	21.35	22.24	23.18	22.67	23.59	24.03
	6H	19.90	20.72	20.36	21.16	21.62	22.70	23.51	23.15	23.95	24.41
	8H	20.02	20.78	20.48	21.22	21.69	22.83	23.60	23.30	24.04	24.51
	12H	20.11	20.79	20.59	21.26	21.74	22.93	23.61	23.41	24.09	24.56
8H	4H	19.92	20.68	20.38	21.12	21.59	22.30	23.06	22.76	23.50	23.97
	6H	20.34	20.96	20.83	21.46	21.93	22.83	23.46	23.33	23.95	24.43
	8H	20.50	21.06	21.01	21.57	22.06	23.02	23.58	23.53	24.09	24.58
	12H	20.65	21.14	21.16	21.64	22.20	23.17	23.67	23.68	24.16	24.73
12H	4H	19.95	20.63	20.43	21.10	21.58	22.29	22.97	22.77	23.44	23.92
	6H	20.38	20.94	20.89	21.46	21.94	22.82	23.38	23.33	23.89	24.38
	8H	20.59	21.09	21.10	21.58	22.15	23.05	23.55	23.56	24.04	24.60