

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: P243421

Luminaire Tested: S123RDRP-H775D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243421  
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-H775D927-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

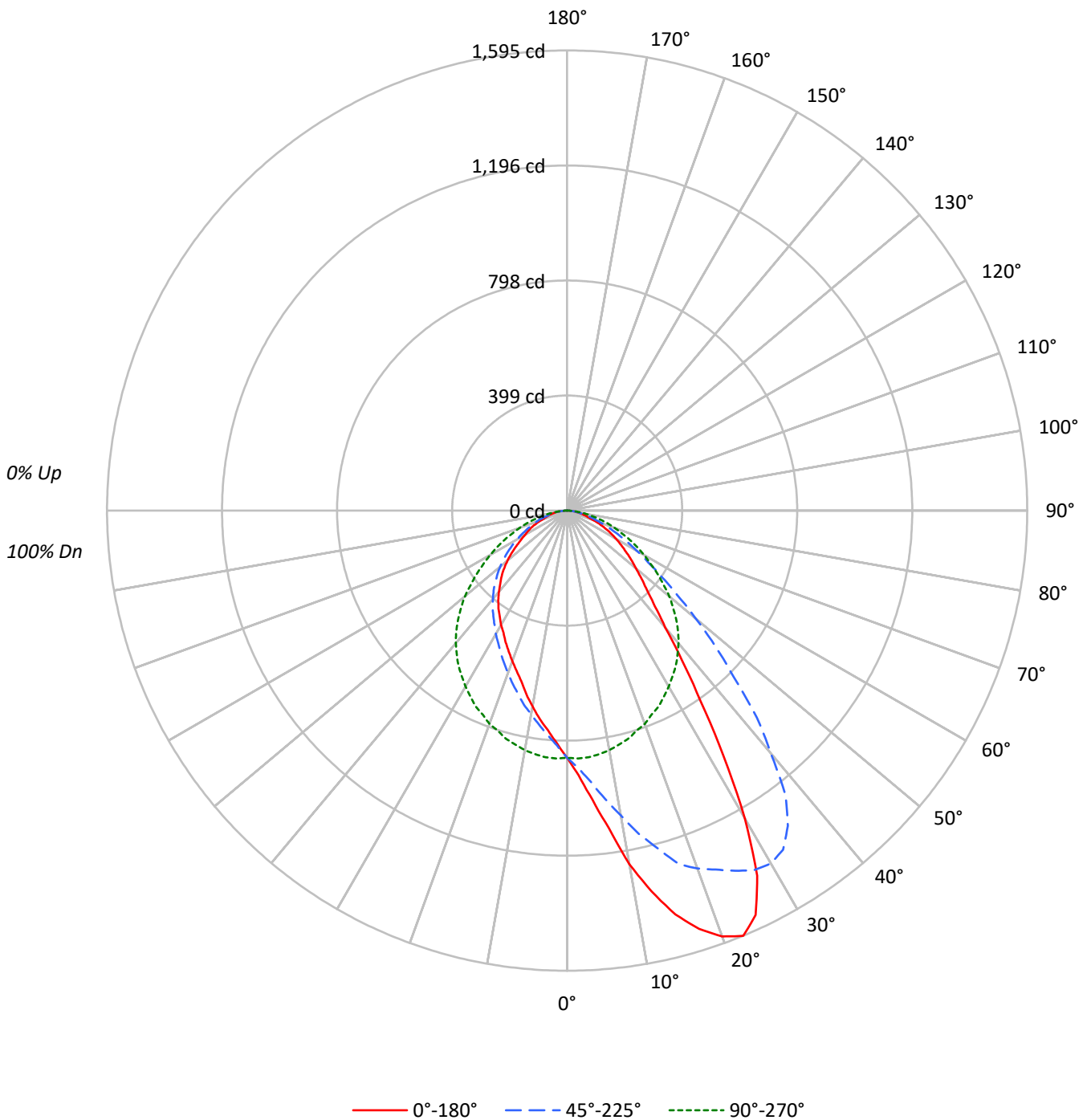
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2231.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 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°	10382	10382	10382	10382	10382
5°	12239	11487	10440	9489	9296
10°	15321	13209	10378	8821	8484
15°	18182	15198	10275	8251	7685
20°	20263	17035	10152	7742	7155
25°	20683	18423	10025	7281	6737
30°	17237	19767	9855	6920	6408
35°	11907	19738	9719	6600	6139
40°	8367	17379	9497	6331	5817
45°	6720	13996	9161	6048	5503
50°	5857	10956	8723	5712	5091
55°	5251	8455	8073	5338	4533
60°	4752	6732	7459	4841	4107
65°	4159	5527	6872	4380	3840
70°	3356	4494	6184	4022	3250
75°	2908	3531	5386	3395	3185
80°	2687	2890	4593	3253	3204
85°	2364	2476	3699	2934	2782

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 17541 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.0	3.8
10°-20°	264.5	11.9
20°-30°	423.8	19.0
30°-40°	460.1	20.6
40°-50°	394.2	17.7
50°-60°	298.8	13.4
60°-70°	190.9	8.6
70°-80°	91.3	4.1
80°-90°	24.0	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°	772.3	34.6
0°-40°	1232.4	55.2
0°-60°	1925.4	86.3
0°-90°	2231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	856	856	856	856	856	
5°	1006	944	858	780	764	103
15°	1449	1211	819	658	612	411
25°	1546	1378	750	544	504	686
35°	805	1334	657	446	415	517
45°	392	816	534	353	321	310
55°	248	400	382	253	214	224
65°	145	193	240	153	134	144
75°	62	75	115	72	68	67
85°	17	18	27	21	20	19
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°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5
2.5°	917.9	919.0	917.1	916.8	916.4	910.5	908.6	905.7	895.3	892.7	890.9
5°	1005.9	1002.9	1006.2	1000.0	992.9	988.9	982.2	967.4	954.5	944.1	937.5
7.5°	1110.2	1111.3	1107.9	1102.0	1088.0	1082.1	1063.9	1046.2	1029.2	1007.7	991.8
10°	1244.8	1235.9	1237.8	1219.3	1204.5	1186.7	1161.9	1133.5	1103.5	1073.2	1050.6
12.5°	1352.0	1358.3	1353.9	1345.0	1316.5	1299.1	1276.6	1235.2	1187.8	1147.1	1112.8
15°	1448.9	1440.4	1441.5	1420.1	1409.7	1393.8	1356.5	1315.4	1284.7	1211.1	1170.4
17.5°	1519.9	1519.2	1518.1	1499.9	1487.4	1454.1	1416.0	1373.8	1335.4	1284.3	1233.3
20°	1570.9	1576.5	1575.0	1560.2	1538.0	1505.9	1482.9	1430.4	1367.2	1320.6	1258.1
22.5°	1595.4	1595.7	1596.5	1589.4	1574.6	1553.9	1521.4	1479.2	1423.0	1346.8	1277.3
25°	1546.5	1548.4	1558.0	1563.9	1568.0	1558.7	1541.7	1503.6	1455.2	1377.5	1305.4
27.5°	1426.7	1432.6	1443.4	1478.9	1493.3	1513.3	1520.3	1505.1	1469.3	1404.5	1322.4
30°	1231.5	1248.1	1258.5	1298.8	1355.3	1408.6	1433.7	1458.5	1455.2	1412.3	1329.1
32.5°	1008.1	1018.8	1048.8	1092.0	1136.8	1214.8	1302.1	1362.0	1395.7	1393.4	1334.6
35°	804.7	820.2	845.8	878.7	940.4	1021.4	1120.2	1214.5	1298.8	1333.9	1312.8
37.5°	653.1	654.6	678.6	725.2	763.7	835.0	924.2	1040.6	1151.2	1242.9	1263.3
40°	528.8	539.2	551.8	581.0	626.5	694.9	754.0	868.7	983.3	1098.3	1180.4
42.5°	450.4	450.4	464.5	483.0	513.3	554.3	625.0	728.9	832.1	973.3	1065.8
45°	392.0	395.7	402.0	413.8	435.3	467.1	521.8	592.4	697.8	816.5	955.6
47.5°	349.8	349.5	355.0	362.0	378.7	402.7	434.9	492.2	570.2	698.2	821.0
50°	310.6	312.1	316.2	322.1	333.2	350.2	370.5	413.8	479.6	581.0	709.7
52.5°	280.3	279.9	283.3	287.0	295.5	305.1	323.2	355.4	400.9	481.5	588.4
55°	248.5	250.0	254.1	256.3	263.3	269.6	284.8	302.9	339.5	400.1	497.4
57.5°	221.1	223.0	225.2	227.4	232.2	238.5	251.1	262.2	288.8	332.5	410.1
60°	196.0	195.3	197.8	201.5	204.1	209.7	216.7	228.2	246.7	277.7	334.7
62.5°	170.9	171.2	171.6	173.8	178.6	183.4	189.7	198.2	209.3	232.2	272.5
65°	145.0	145.3	146.1	148.3	153.1	156.1	162.7	170.1	179.0	192.7	220.8
67.5°	122.0	123.5	123.5	125.4	127.2	130.2	135.0	140.5	147.9	157.9	176.0
70°	94.7	94.3	96.2	99.8	101.7	106.9	110.2	113.9	120.6	126.8	142.4
72.5°	76.2	76.2	76.2	77.7	78.0	79.1	81.4	89.1	94.3	100.6	109.1
75°	62.1	62.5	62.5	62.9	63.2	64.3	65.1	67.3	68.8	75.4	80.6
77.5°	49.6	49.9	49.9	50.3	50.7	51.0	52.5	52.5	53.6	55.1	57.3
80°	38.5	38.1	38.1	38.5	38.5	39.6	39.6	40.3	40.7	41.4	42.5
82.5°	27.4	27.0	27.4	27.0	27.4	27.7	28.5	28.1	28.8	29.6	30.0
85°	17.0	17.4	17.4	18.1	17.8	17.4	17.8	17.8	17.8	17.8	18.5
87.5°	7.4	8.1	8.1	7.8	8.1	8.1	7.4	8.1	8.1	8.1	8.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5
2.5°	889.8	888.3	882.7	877.6	869.8	866.5	862.0	860.2	854.3	846.1	842.4
5°	931.2	920.1	909.4	896.4	885.7	873.1	866.1	858.0	845.4	833.9	825.8
7.5°	975.2	958.9	938.9	917.5	898.3	880.1	864.6	851.7	835.4	819.5	806.9
10°	1023.6	995.9	963.7	936.4	908.6	882.4	862.8	843.2	822.1	802.1	787.0
12.5°	1075.8	1036.6	997.7	956.7	915.3	885.0	855.7	830.6	806.9	785.8	767.7
15°	1129.8	1076.1	1026.6	980.4	922.7	882.0	849.8	818.8	789.2	763.3	745.5
17.5°	1168.2	1106.8	1044.3	978.9	929.3	879.0	839.1	799.9	772.5	745.9	721.9
20°	1203.7	1134.2	1059.9	998.9	929.7	868.3	824.7	787.0	748.9	720.4	700.0
22.5°	1218.9	1156.0	1081.0	996.3	927.1	864.2	808.0	765.5	731.5	700.4	673.8
25°	1221.8	1151.6	1074.7	992.9	917.1	849.1	792.1	749.6	705.2	673.1	652.3
27.5°	1234.8	1138.6	1063.2	981.8	904.9	833.9	774.0	726.7	685.3	650.9	624.2
30°	1238.1	1133.1	1038.8	961.1	882.0	812.5	751.8	704.1	659.0	623.9	599.8
32.5°	1239.6	1125.7	1013.3	928.2	852.8	787.3	731.9	680.1	637.2	600.2	575.4
35°	1234.4	1115.3	982.6	890.9	818.4	754.0	702.6	656.8	609.1	574.3	548.1
37.5°	1214.1	1099.1	965.2	847.2	778.1	717.4	673.8	628.7	584.7	546.9	520.0
40°	1175.6	1075.4	932.7	810.6	732.2	677.9	637.2	600.2	555.8	519.6	493.0
42.5°	1114.2	1043.2	902.7	769.2	686.7	635.3	601.3	569.5	529.6	495.2	466.0
45°	1023.3	998.1	862.8	727.0	637.2	588.7	559.2	534.4	498.1	466.7	439.7
47.5°	924.9	930.4	822.5	684.1	592.1	545.8	520.0	498.1	470.8	437.1	412.3
50°	811.4	841.7	765.9	640.9	546.9	501.5	475.9	462.6	437.1	409.0	385.7
52.5°	707.4	755.5	708.6	593.5	502.6	457.8	434.2	420.8	403.8	380.5	356.9
55°	599.8	660.8	626.8	542.5	457.5	412.3	392.4	382.0	368.0	349.8	328.4
57.5°	510.7	575.8	554.3	488.9	413.4	372.8	355.0	343.2	334.7	318.0	300.7
60°	423.4	483.7	475.2	427.1	369.8	331.0	317.3	307.7	300.7	288.5	271.4
62.5°	341.7	400.1	405.3	367.6	327.3	292.1	279.6	272.9	267.4	257.8	242.2
65°	271.1	322.5	333.2	304.4	282.5	255.9	243.7	239.6	235.6	224.5	212.6
67.5°	212.3	252.6	266.6	250.4	234.8	219.3	209.7	204.1	201.2	194.5	186.4
70°	162.3	197.1	208.9	201.9	191.6	185.6	178.2	174.5	171.6	163.1	158.6
72.5°	121.7	145.3	160.1	157.9	155.7	151.6	147.2	146.1	141.6	136.1	132.0
75°	89.1	102.8	116.1	120.9	120.2	121.7	116.9	115.0	112.4	108.4	105.0
77.5°	64.0	72.1	81.4	87.3	90.2	90.6	90.6	89.5	87.6	84.7	82.1
80°	44.4	46.2	54.7	60.3	63.2	65.5	65.5	65.8	64.0	62.9	61.0
82.5°	30.7	31.8	33.7	38.1	41.8	44.4	44.7	44.4	43.6	43.3	40.7
85°	19.2	18.9	18.9	20.0	22.9	25.5	25.9	26.6	26.3	25.9	23.3
87.5°	8.1	8.1	8.5	8.1	9.2	9.6	10.4	12.2	11.8	10.0	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5
2.5°	840.2	835.4	831.0	826.2	820.2	814.7	813.9	813.2	815.1	811.4	809.9
5°	819.5	810.3	803.2	794.3	788.1	779.9	775.5	774.4	774.0	771.8	768.8
7.5°	796.9	787.0	777.0	767.0	756.6	748.1	743.3	740.7	738.5	734.8	731.9
10°	775.9	763.3	752.6	738.9	727.8	716.7	712.3	708.6	706.3	701.2	697.1
12.5°	752.2	736.3	724.5	709.7	699.7	690.1	683.0	676.0	670.8	663.1	659.7
15°	731.5	714.8	694.9	686.0	671.9	657.5	649.8	649.8	639.0	632.7	628.7
17.5°	703.7	689.3	675.3	657.2	637.2	628.7	619.8	612.0	604.6	602.8	595.4
20°	679.3	662.3	647.9	628.3	610.2	600.2	589.8	581.3	575.8	570.6	566.5
22.5°	655.3	638.3	616.1	596.9	584.7	571.4	560.3	552.9	548.1	540.3	536.6
25°	630.2	609.8	589.8	571.0	555.8	544.4	532.9	528.8	520.3	516.3	511.1
27.5°	605.0	580.6	561.7	545.5	528.5	517.4	509.6	502.2	494.8	492.6	489.6
30°	576.9	554.3	536.2	520.3	504.0	494.4	485.2	478.5	472.2	467.4	464.1
32.5°	548.8	529.9	512.6	494.1	479.3	468.9	461.2	455.2	452.3	444.1	441.2
35°	522.9	503.7	485.2	467.8	456.0	446.0	439.0	433.4	427.1	422.0	419.0
37.5°	496.3	478.9	460.0	445.2	431.9	423.8	416.0	408.6	403.8	400.9	397.2
40°	470.4	451.9	437.5	421.2	409.4	400.1	392.0	386.5	380.5	377.9	373.1
42.5°	446.0	428.2	411.6	396.8	386.1	377.2	369.4	363.2	358.3	353.5	350.9
45°	417.9	402.4	387.2	372.4	362.4	352.8	344.3	338.7	332.1	328.0	326.5
47.5°	394.2	377.9	361.7	348.0	337.6	327.3	320.3	313.6	308.1	304.0	301.8
50°	366.1	350.9	337.6	324.0	314.0	302.9	294.4	288.1	281.8	278.8	275.1
52.5°	342.1	327.3	311.0	298.8	287.3	277.7	270.0	264.8	259.2	254.8	252.2
55°	312.1	297.7	284.8	271.8	260.3	252.6	246.3	237.4	232.6	228.2	221.1
57.5°	285.9	272.2	258.5	245.9	235.2	226.0	218.2	212.3	206.0	202.7	197.8
60°	258.1	243.7	231.1	221.5	209.7	199.7	194.5	187.5	182.3	177.1	175.7
62.5°	230.8	217.4	204.9	194.9	184.2	176.4	169.7	166.4	161.2	157.2	155.7
65°	202.3	191.2	179.4	168.3	161.6	152.7	149.0	143.5	140.5	138.7	138.3
67.5°	174.2	164.2	153.5	145.0	138.7	132.8	128.3	126.1	123.1	120.9	119.1
70°	148.7	139.0	129.8	122.8	118.0	113.5	110.6	106.5	103.5	100.6	96.5
72.5°	123.5	115.8	108.0	102.4	97.6	95.0	91.0	84.7	81.7	81.0	80.6
75°	100.2	91.7	86.2	83.2	78.8	72.5	69.9	69.2	68.8	68.0	68.0
77.5°	77.3	72.1	68.4	62.1	59.9	59.5	57.7	57.3	56.6	57.0	57.0
80°	56.2	53.3	48.8	47.0	46.2	46.6	45.9	46.2	45.5	45.9	45.1
82.5°	37.4	34.8	35.5	34.4	34.4	35.1	34.8	33.7	33.7	33.3	33.3
85°	22.2	21.8	22.6	22.6	22.2	21.1	21.8	21.4	20.3	20.7	20.7
87.5°	9.6	9.6	9.6	9.2	9.6	9.2	9.2	9.2	8.1	8.1	8.1
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: P243421

CATALOG NUMBER: S123RDRP-H775D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	856.5	856.5	856.5	856.5
2.5°	810.6	809.9	808.8	807.7
5°	768.8	765.5	765.1	764.0
7.5°	729.6	728.2	725.6	728.5
10°	693.8	694.9	692.3	689.3
12.5°	656.4	654.2	650.1	652.3
15°	623.5	619.8	617.6	612.4
17.5°	589.1	586.1	586.1	582.8
20°	559.2	556.2	556.9	554.7
22.5°	534.0	531.8	528.5	528.8
25°	510.3	507.0	503.3	503.7
27.5°	484.1	481.1	480.4	477.8
30°	460.8	458.2	457.8	457.8
32.5°	438.2	437.1	435.3	434.2
35°	418.6	417.1	414.2	414.9
37.5°	394.2	392.7	392.4	392.0
40°	371.3	370.2	367.2	367.6
42.5°	348.4	346.5	344.7	343.9
45°	323.6	323.2	320.3	321.0
47.5°	299.9	299.2	297.7	295.8
50°	273.7	273.3	272.2	270.0
52.5°	248.1	247.0	244.8	242.6
55°	219.3	216.0	216.3	214.5
57.5°	195.6	194.1	191.2	190.1
60°	172.7	171.2	170.9	169.4
62.5°	153.5	152.0	150.9	150.9
65°	136.1	134.2	133.9	133.9
67.5°	116.9	115.0	114.6	113.9
70°	92.8	92.5	91.7	91.7
72.5°	79.9	79.5	79.9	78.4
75°	68.0	67.7	67.7	68.0
77.5°	56.6	56.6	56.2	56.2
80°	44.7	45.1	44.7	45.9
82.5°	33.7	32.9	33.3	32.5
85°	20.7	20.7	20.0	20.0
87.5°	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243421  
 CATALOG NUMBER: S123RDRP-H775D927-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	16.52	18.02	16.88	18.33	18.65	19.22	20.72	19.58	21.03	21.35
	3H	17.70	19.05	18.08	19.38	19.74	20.64	21.99	21.02	22.32	22.68
	4H	18.06	19.32	18.46	19.67	20.05	21.15	22.41	21.55	22.76	23.13
	6H	18.33	19.50	18.74	19.86	20.25	21.49	22.66	21.90	23.02	23.41
	8H	18.42	19.53	18.85	19.92	20.32	21.59	22.70	22.02	23.09	23.49
	12H	18.48	19.54	18.91	19.93	20.35	21.65	22.71	22.08	23.09	23.52
4H	2H	17.47	18.73	17.87	19.08	19.46	19.50	20.76	19.90	21.11	21.48
	3H	18.74	19.78	19.15	20.18	20.58	21.21	22.26	21.62	22.66	23.06
	4H	19.14	20.08	19.58	20.50	20.94	21.83	22.77	22.26	23.18	23.62
	6H	19.49	20.31	19.95	20.75	21.21	22.29	23.10	22.74	23.54	24.00
	8H	19.61	20.37	20.07	20.81	21.28	22.42	23.18	22.89	23.63	24.10
	12H	19.70	20.37	20.18	20.85	21.33	22.52	23.20	23.00	23.68	24.15
8H	4H	19.50	20.27	19.97	20.71	21.18	21.89	22.65	22.35	23.09	23.56
	6H	19.92	20.55	20.42	21.04	21.52	22.42	23.05	22.91	23.54	24.01
	8H	20.09	20.65	20.60	21.16	21.65	22.61	23.17	23.12	23.68	24.17
	12H	20.23	20.73	20.75	21.23	21.79	22.76	23.26	23.27	23.75	24.31
12H	4H	19.53	20.21	20.02	20.69	21.16	21.88	22.55	22.36	23.03	23.50
	6H	19.97	20.53	20.48	21.04	21.53	22.41	22.97	22.92	23.48	23.97
	8H	20.18	20.68	20.69	21.17	21.74	22.64	23.13	23.15	23.63	24.19