

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: P243426

Luminaire Tested: S123RDRP-H775D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243426
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-H775D830-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

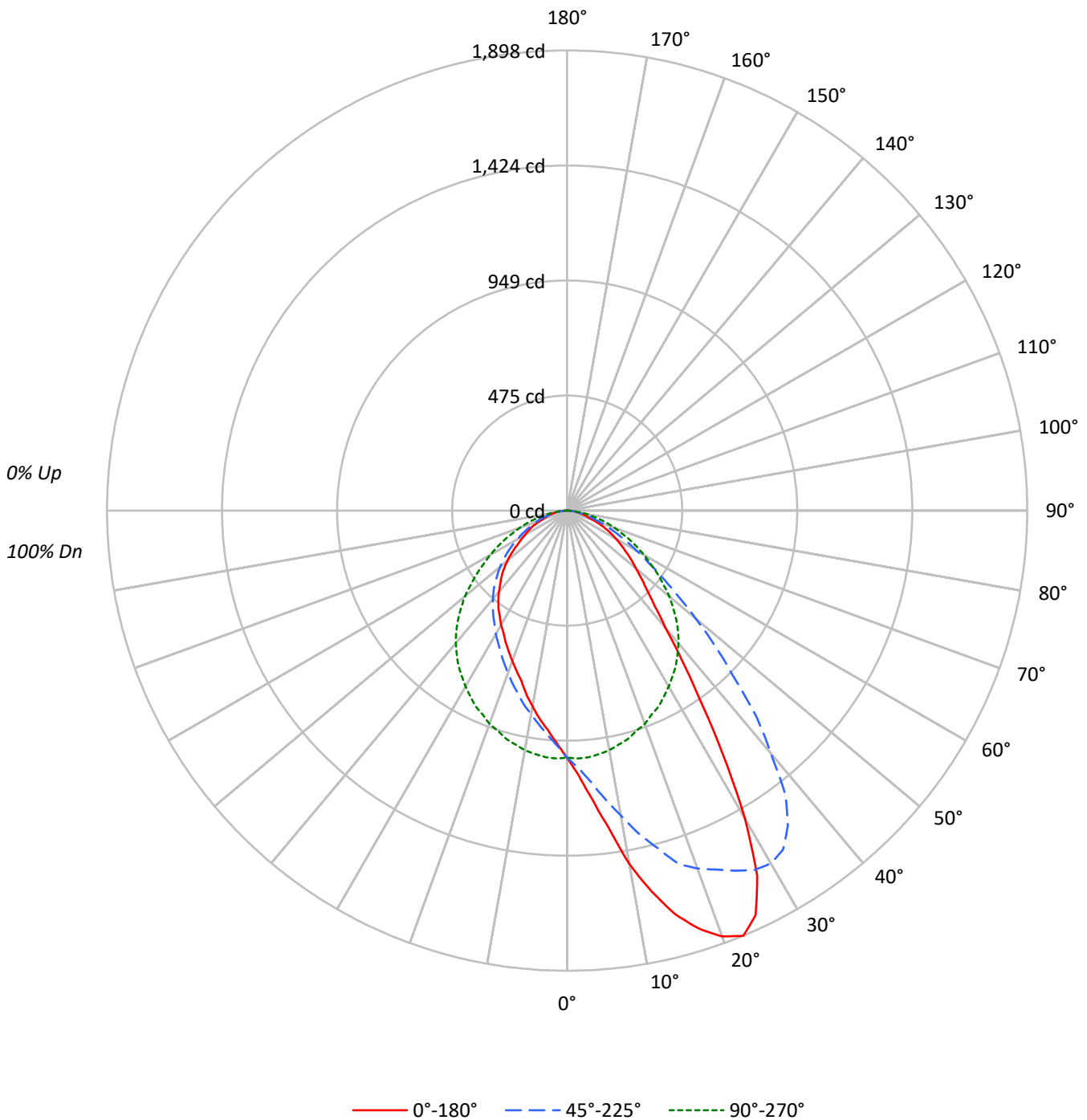
Lumens per Lamp: N/A
Luminaire Lumens: 2655.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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°	12352	12352	12352	12352	12352
5°	14562	13668	12421	11291	11060
10°	18228	15716	12348	10495	10095
15°	21633	18083	12225	9817	9143
20°	24110	20267	12077	9211	8513
25°	24610	21920	11929	8663	8015
30°	20508	23520	11726	8234	7624
35°	14167	23485	11563	7851	7305
40°	9956	20678	11299	7533	6921
45°	7995	16653	10899	7196	6547
50°	6970	13034	10379	6796	6057
55°	6249	10061	9605	6350	5393
60°	5653	8010	8875	5760	4885
65°	4948	6574	8177	5211	4569
70°	3991	5348	7361	4788	3867
75°	3461	4206	6407	4037	3793
80°	3197	3441	5466	3867	3811
85°	2809	2934	4409	3491	3310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 20870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.8
10°-20°	314.7	11.9
20°-30°	504.3	19.0
30°-40°	547.4	20.6
40°-50°	469.0	17.7
50°-60°	355.5	13.4
60°-70°	227.2	8.6
70°-80°	108.6	4.1
80°-90°	28.5	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°	918.9	34.6
0°-40°	1466.4	55.2
0°-60°	2290.9	86.3
0°-90°	2655.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1019	1019	1019	1019	1019	
5°	1197	1123	1021	928	909	123
15°	1724	1441	974	782	729	489
25°	1840	1639	892	648	599	816
35°	957	1587	781	531	494	615
45°	466	972	636	420	382	369
55°	296	476	454	300	255	267
65°	172	229	285	182	159	171
75°	74	90	137	86	81	80
85°	20	21	32	25	24	23
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°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1092.1	1093.4	1091.2	1090.8	1090.3	1083.3	1081.1	1077.6	1065.2	1062.2	1060.0
5°	1196.8	1193.3	1197.2	1189.8	1181.4	1176.6	1168.6	1151.0	1135.6	1123.3	1115.4
7.5°	1320.9	1322.2	1318.2	1311.2	1294.5	1287.4	1265.9	1244.8	1224.5	1199.0	1180.1
10°	1481.0	1470.5	1472.7	1450.7	1433.1	1412.0	1382.5	1348.6	1313.0	1276.9	1250.0
12.5°	1608.6	1616.1	1610.8	1600.3	1566.4	1545.7	1518.9	1469.6	1413.3	1364.9	1324.0
15°	1723.9	1713.8	1715.1	1689.6	1677.3	1658.4	1613.9	1565.1	1528.6	1441.0	1392.6
17.5°	1808.4	1807.5	1806.2	1784.6	1769.7	1730.1	1684.8	1634.6	1588.8	1528.1	1467.4
20°	1869.1	1875.7	1874.0	1856.4	1830.0	1791.7	1764.4	1701.9	1626.7	1571.2	1496.9
22.5°	1898.2	1898.6	1899.5	1891.1	1873.5	1848.9	1810.2	1760.0	1693.1	1602.5	1519.8
25°	1840.1	1842.3	1853.7	1860.8	1865.6	1854.6	1834.4	1789.0	1731.4	1639.0	1553.2
27.5°	1697.5	1704.6	1717.3	1759.6	1776.7	1800.5	1808.8	1790.8	1748.1	1671.1	1573.4
30°	1465.2	1485.0	1497.3	1545.3	1612.6	1676.0	1705.9	1735.4	1731.4	1680.4	1581.4
32.5°	1199.4	1212.2	1247.8	1299.3	1352.6	1445.4	1549.2	1620.5	1660.6	1657.9	1588.0
35°	957.4	975.9	1006.3	1045.4	1118.9	1215.3	1332.8	1445.0	1545.3	1587.1	1562.0
37.5°	777.0	778.8	807.4	862.8	908.6	993.5	1099.6	1238.2	1369.7	1478.8	1503.0
40°	629.2	641.5	656.5	691.2	745.4	826.8	897.2	1033.6	1170.0	1306.8	1404.5
42.5°	535.9	535.9	552.6	574.6	610.7	659.6	743.6	867.2	990.0	1158.1	1268.1
45°	466.4	470.8	478.3	492.4	517.9	555.7	620.8	704.9	830.3	971.5	1137.0
47.5°	416.2	415.8	422.4	430.8	450.6	479.2	517.4	585.6	678.5	830.7	976.8
50°	369.6	371.4	376.2	383.2	396.4	416.7	440.9	492.4	570.7	691.2	844.4
52.5°	333.5	333.1	337.0	341.4	351.6	363.0	384.6	422.8	477.0	572.9	700.0
55°	295.7	297.4	302.3	304.9	313.3	320.8	338.8	360.4	403.9	476.1	591.8
57.5°	263.1	265.3	268.0	270.6	276.3	283.8	298.8	312.0	343.6	395.6	488.0
60°	233.2	232.3	235.4	239.8	242.9	249.5	257.8	271.5	293.5	330.4	398.2
62.5°	203.3	203.7	204.2	206.8	212.5	218.2	225.7	235.8	249.0	276.3	324.3
65°	172.5	172.9	173.8	176.4	182.2	185.7	193.6	202.4	213.0	229.2	262.7
67.5°	145.2	147.0	147.0	149.2	151.4	154.9	160.6	167.2	176.0	187.9	209.4
70°	112.6	112.2	114.4	118.8	121.0	127.2	131.1	135.5	143.4	150.9	169.4
72.5°	90.6	90.6	90.6	92.4	92.8	94.2	96.8	106.0	112.2	119.7	129.8
75°	73.9	74.4	74.4	74.8	75.2	76.6	77.4	80.1	81.8	89.8	95.9
77.5°	59.0	59.4	59.4	59.8	60.3	60.7	62.5	62.5	63.8	65.6	68.2
80°	45.8	45.3	45.3	45.8	45.8	47.1	47.1	48.0	48.4	49.3	50.6
82.5°	32.6	32.1	32.6	32.1	32.6	33.0	33.9	33.4	34.3	35.2	35.6
85°	20.2	20.7	20.7	21.6	21.1	20.7	21.1	21.1	21.1	21.1	22.0
87.5°	8.8	9.7	9.7	9.2	9.7	9.7	8.8	9.7	9.7	9.7	10.1
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°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1058.6	1056.9	1050.3	1044.1	1034.9	1030.9	1025.6	1023.4	1016.4	1006.7	1002.3
5°	1107.9	1094.7	1082.0	1066.6	1053.8	1038.8	1030.5	1020.8	1005.8	992.2	982.5
7.5°	1160.3	1140.9	1117.2	1091.6	1068.8	1047.2	1028.7	1013.3	994.0	975.0	960.1
10°	1217.9	1184.9	1146.6	1114.1	1081.1	1049.8	1026.5	1003.2	978.1	954.4	936.3
12.5°	1280.0	1233.3	1187.1	1138.3	1089.0	1052.9	1018.2	988.2	960.1	935.0	913.4
15°	1344.2	1280.4	1221.4	1166.4	1097.8	1049.4	1011.1	974.2	939.0	908.2	887.0
17.5°	1390.0	1316.9	1242.6	1164.7	1105.7	1045.9	998.4	951.7	919.2	887.5	858.9
20°	1432.2	1349.5	1261.0	1188.4	1106.2	1033.1	981.2	936.3	891.0	857.1	832.9
22.5°	1450.2	1375.4	1286.1	1185.4	1103.1	1028.3	961.4	910.8	870.3	833.4	801.7
25°	1453.8	1370.2	1278.6	1181.4	1091.2	1010.2	942.5	891.9	839.1	800.8	776.2
27.5°	1469.2	1354.8	1265.0	1168.2	1076.7	992.2	920.9	864.6	815.3	774.4	742.7
30°	1473.1	1348.2	1236.0	1143.6	1049.4	966.7	894.5	837.8	784.1	742.3	713.7
32.5°	1474.9	1339.4	1205.6	1104.4	1014.6	936.8	870.8	809.2	758.1	714.1	684.6
35°	1468.7	1327.0	1169.1	1060.0	973.7	897.2	836.0	781.4	724.7	683.3	652.1
37.5°	1444.5	1307.7	1148.4	1008.0	925.8	853.6	801.7	748.0	695.6	650.8	618.6
40°	1398.8	1279.5	1109.7	964.5	871.2	806.5	758.1	714.1	661.3	618.2	586.5
42.5°	1325.7	1241.2	1074.0	915.2	817.1	755.9	715.4	677.6	630.1	589.2	554.4
45°	1217.5	1187.6	1026.5	865.0	758.1	700.5	665.3	635.8	592.7	555.3	523.2
47.5°	1100.4	1107.0	978.6	814.0	704.4	649.4	618.6	592.7	560.1	520.1	490.6
50°	965.4	1001.4	911.2	762.5	650.8	596.6	566.3	550.4	520.1	486.6	458.9
52.5°	841.7	898.9	843.0	706.2	598.0	544.7	516.6	500.7	480.5	452.8	424.6
55°	713.7	786.3	745.8	645.5	544.3	490.6	466.8	454.5	437.8	416.2	390.7
57.5°	607.6	685.1	659.6	581.7	491.9	443.5	422.4	408.3	398.2	378.4	357.7
60°	503.8	575.5	565.4	508.2	440.0	393.8	377.5	366.1	357.7	343.2	323.0
62.5°	406.6	476.1	482.2	437.4	389.4	347.6	332.6	324.7	318.1	306.7	288.2
65°	322.5	383.7	396.4	362.1	336.2	304.5	290.0	285.1	280.3	267.1	253.0
67.5°	252.6	300.5	317.2	297.9	279.4	260.9	249.5	242.9	239.4	231.4	221.8
70°	193.2	234.5	248.6	240.2	227.9	220.9	212.1	207.7	204.2	194.0	188.8
72.5°	144.8	172.9	190.5	187.9	185.2	180.4	175.1	173.8	168.5	161.9	157.1
75°	106.0	122.3	138.2	143.9	143.0	144.8	139.0	136.8	133.8	128.9	125.0
77.5°	76.1	85.8	96.8	103.8	107.4	107.8	107.8	106.5	104.3	100.8	97.7
80°	52.8	55.0	65.1	71.7	75.2	77.9	77.9	78.3	76.1	74.8	72.6
82.5°	36.5	37.8	40.0	45.3	49.7	52.8	53.2	52.8	51.9	51.5	48.4
85°	22.9	22.4	22.4	23.8	27.3	30.4	30.8	31.7	31.2	30.8	27.7
87.5°	9.7	9.7	10.1	9.7	11.0	11.4	12.3	14.5	14.1	11.9	11.0
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°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	999.7	994.0	988.7	983.0	975.9	969.3	968.4	967.6	969.8	965.4	963.6
5°	975.0	964.0	955.7	945.1	937.6	928.0	922.7	921.4	920.9	918.3	914.8
7.5°	948.2	936.3	924.4	912.6	900.2	890.1	884.4	881.3	878.7	874.3	870.8
10°	923.1	908.2	895.4	879.1	865.9	852.7	847.4	843.0	840.4	834.2	829.4
12.5°	895.0	876.0	862.0	844.4	832.5	821.0	812.7	804.3	798.2	788.9	785.0
15°	870.3	850.5	826.8	816.2	799.5	782.3	773.1	773.1	760.3	752.8	748.0
17.5°	837.3	820.2	803.4	781.9	758.1	748.0	737.4	728.2	719.4	717.2	708.4
20°	808.3	788.0	770.9	747.6	726.0	714.1	701.8	691.7	685.1	678.9	674.1
22.5°	779.7	759.4	733.0	710.2	695.6	679.8	666.6	657.8	652.1	642.8	638.4
25°	749.8	725.6	701.8	679.4	661.3	647.7	634.0	629.2	619.1	614.2	608.1
27.5°	719.8	690.8	668.4	649.0	628.8	615.6	606.3	597.5	588.7	586.1	582.6
30°	686.4	659.6	638.0	619.1	599.7	588.3	577.3	569.4	561.9	556.2	552.2
32.5°	653.0	630.5	609.8	587.8	570.2	557.9	548.7	541.6	538.1	528.4	524.9
35°	622.2	599.3	577.3	556.6	542.5	530.6	522.3	515.7	508.2	502.0	498.5
37.5°	590.5	569.8	547.4	529.8	513.9	504.2	495.0	486.2	480.5	477.0	472.6
40°	559.7	537.7	520.5	501.2	487.1	476.1	466.4	459.8	452.8	449.7	444.0
42.5°	530.6	509.5	489.7	472.1	459.4	448.8	439.6	432.1	426.4	420.6	417.6
45°	497.2	478.7	460.7	443.1	431.2	419.8	409.6	403.0	395.1	390.3	388.5
47.5°	469.0	449.7	430.3	414.0	401.7	389.4	381.0	373.1	366.5	361.7	359.0
50°	435.6	417.6	401.7	385.4	373.6	360.4	350.2	342.8	335.3	331.8	327.4
52.5°	407.0	389.4	370.0	355.5	341.9	330.4	321.2	315.0	308.4	303.2	300.1
55°	371.4	354.2	338.8	323.4	309.8	300.5	293.0	282.5	276.8	271.5	263.1
57.5°	340.1	323.8	307.6	292.6	279.8	268.8	259.6	252.6	245.1	241.1	235.4
60°	307.1	290.0	275.0	263.6	249.5	237.6	231.4	223.1	216.9	210.8	209.0
62.5°	274.6	258.7	243.8	231.9	219.1	209.9	202.0	198.0	191.8	187.0	185.2
65°	240.7	227.5	213.4	200.2	192.3	181.7	177.3	170.7	167.2	165.0	164.6
67.5°	207.2	195.4	182.6	172.5	165.0	158.0	152.7	150.0	146.5	143.9	141.7
70°	176.9	165.4	154.4	146.1	140.4	135.1	131.6	126.7	123.2	119.7	114.8
72.5°	147.0	137.7	128.5	121.9	116.2	113.1	108.2	100.8	97.2	96.4	95.9
75°	119.2	109.1	102.5	99.0	93.7	86.2	83.2	82.3	81.8	81.0	81.0
77.5°	92.0	85.8	81.4	73.9	71.3	70.8	68.6	68.2	67.3	67.8	67.8
80°	66.9	63.4	58.1	55.9	55.0	55.4	54.6	55.0	54.1	54.6	53.7
82.5°	44.4	41.4	42.2	40.9	40.9	41.8	41.4	40.0	40.0	39.6	39.6
85°	26.4	26.0	26.8	26.8	26.4	25.1	26.0	25.5	24.2	24.6	24.6
87.5°	11.4	11.4	11.4	11.0	11.4	11.0	11.0	11.0	9.7	9.7	9.7
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: P243426

CATALOG NUMBER: S123RDRP-H775D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1019.0	1019.0	1019.0	1019.0
2.5°	964.5	963.6	962.3	961.0
5°	914.8	910.8	910.4	909.0
7.5°	868.1	866.4	863.3	866.8
10°	825.4	826.8	823.7	820.2
12.5°	781.0	778.4	773.5	776.2
15°	741.8	737.4	734.8	728.6
17.5°	700.9	697.4	697.4	693.4
20°	665.3	661.8	662.6	660.0
22.5°	635.4	632.7	628.8	629.2
25°	607.2	603.2	598.8	599.3
27.5°	576.0	572.4	571.6	568.5
30°	548.2	545.2	544.7	544.7
32.5°	521.4	520.1	517.9	516.6
35°	498.1	496.3	492.8	493.7
37.5°	469.0	467.3	466.8	466.4
40°	441.8	440.4	436.9	437.4
42.5°	414.5	412.3	410.1	409.2
45°	385.0	384.6	381.0	381.9
47.5°	356.8	356.0	354.2	352.0
50°	325.6	325.2	323.8	321.2
52.5°	295.2	293.9	291.3	288.6
55°	260.9	257.0	257.4	255.2
57.5°	232.8	231.0	227.5	226.2
60°	205.5	203.7	203.3	201.5
62.5°	182.6	180.8	179.5	179.5
65°	161.9	159.7	159.3	159.3
67.5°	139.0	136.8	136.4	135.5
70°	110.4	110.0	109.1	109.1
72.5°	95.0	94.6	95.0	93.3
75°	81.0	80.5	80.5	81.0
77.5°	67.3	67.3	66.9	66.9
80°	53.2	53.7	53.2	54.6
82.5°	40.0	39.2	39.6	38.7
85°	24.6	24.6	23.8	23.8
87.5°	9.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243426
 CATALOG NUMBER: S123RDRP-H775D830-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	17.12	18.62	17.49	18.94	19.25	19.82	21.32	20.19	21.64	21.95
	3H	18.31	19.65	18.69	19.98	20.34	21.25	22.59	21.62	22.92	23.28
	4H	18.66	19.92	19.06	20.27	20.65	21.75	23.01	22.15	23.36	23.74
	6H	18.94	20.10	19.35	20.47	20.86	22.10	23.26	22.51	23.63	24.02
	8H	19.03	20.13	19.45	20.52	20.92	22.20	23.30	22.62	23.69	24.09
	12H	19.09	20.15	19.52	20.53	20.96	22.26	23.31	22.69	23.70	24.13
4H	2H	18.07	19.33	18.47	19.68	20.06	20.10	21.36	20.50	21.71	22.09
	3H	19.34	20.38	19.75	20.78	21.19	21.82	22.86	22.23	23.26	23.66
	4H	19.75	20.69	20.18	21.10	21.54	22.43	23.37	22.87	23.79	24.23
	6H	20.09	20.91	20.55	21.35	21.81	22.89	23.70	23.35	24.15	24.61
	8H	20.21	20.97	20.67	21.41	21.88	23.03	23.79	23.49	24.23	24.70
	12H	20.30	20.98	20.78	21.46	21.93	23.12	23.80	23.60	24.28	24.75
8H	4H	20.11	20.87	20.57	21.31	21.78	22.49	23.25	22.96	23.70	24.16
	6H	20.53	21.16	21.03	21.65	22.13	23.02	23.65	23.52	24.14	24.62
	8H	20.69	21.26	21.21	21.77	22.26	23.21	23.77	23.72	24.28	24.77
	12H	20.84	21.34	21.35	21.83	22.40	23.36	23.86	23.87	24.35	24.92
12H	4H	20.14	20.82	20.62	21.30	21.77	22.48	23.16	22.96	23.64	24.11
	6H	20.57	21.14	21.09	21.65	22.14	23.01	23.58	23.53	24.09	24.57
	8H	20.79	21.28	21.30	21.78	22.34	23.24	23.74	23.75	24.23	24.80