

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P832374

Luminaire Tested: S123RDIP-S775D365U930-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P832374  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, G3-1807-864-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S775D365U930-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 365 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: -

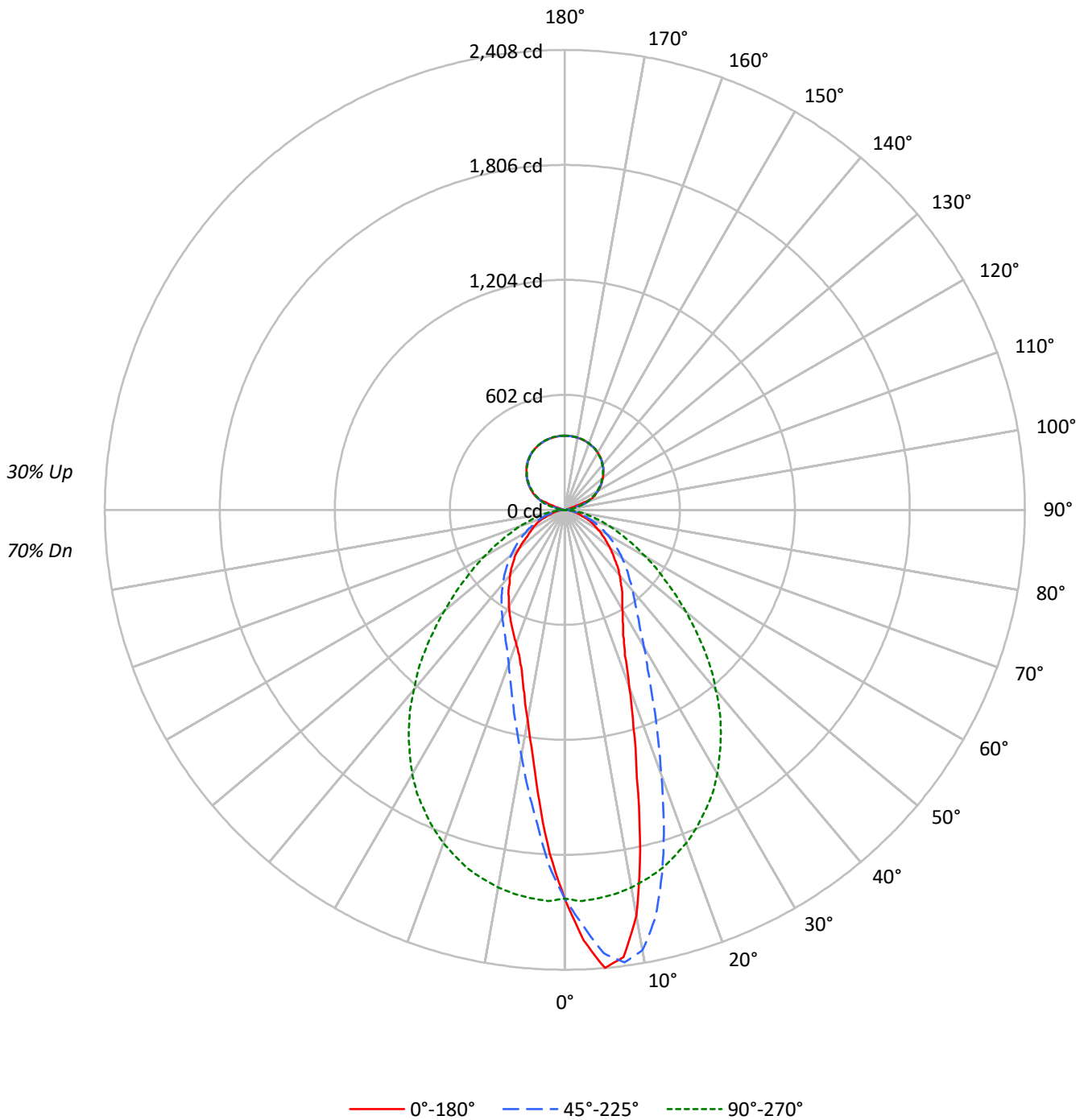
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3881.5 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 35.9  
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70				
1	103	99	96	92	98	94	91	88	84	82	80	75	74	72	67	66	65	61				
2	95	88	82	77	90	84	79	74	75	71	68	68	65	62	61	58	56	53				
3	88	79	72	66	83	75	69	64	68	63	59	61	57	54	55	52	49	46				
4	81	71	63	57	76	67	61	55	61	56	51	55	51	48	50	47	44	41				
5	75	64	56	50	71	61	54	49	56	50	45	50	46	42	46	42	39	37				
6	70	58	50	45	66	56	48	43	51	45	41	46	42	38	42	38	35	33				
7	65	53	45	40	61	51	44	39	47	41	37	43	38	34	39	35	32	30				
8	61	49	41	36	58	47	40	35	43	37	33	40	35	31	36	32	29	27				
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	34	30	27	25				
10	54	42	35	30	51	40	34	29	37	32	28	34	30	26	32	28	25	23				

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

	0°	45°	90°	135°	180°
0°	21909	21909	21909	21909	21909
5°	26014	25184	22047	17822	16546
10°	23569	25580	21936	14279	12249
15°	16227	21933	21704	11671	9690
20°	11290	16887	21269	9841	8517
25°	8603	12870	20635	8747	7849
30°	7489	10289	19842	8121	7271
35°	6875	8679	18718	7594	6744
40°	6274	7751	17249	7076	6261
45°	5666	7089	15664	6587	5780
50°	5143	6541	13793	6107	5184
55°	4650	6005	11995	5637	4448
60°	4168	5462	10419	5119	4204
65°	3846	4847	8970	4602	3976
70°	3125	4189	7827	4164	3229
75°	2741	3331	6629	3452	2845
80°	2486	2820	5430	2895	2690
85°	2272	2470	4125	2631	2470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 16527 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	4.8
10°-20°	429.3	11.1
20°-30°	492.6	12.7
30°-40°	485.5	12.5
40°-50°	428.1	11.0
50°-60°	329.4	8.5
60°-70°	216.5	5.6
70°-80°	105.2	2.7
80°-90°	27.3	0.7
90°-100°	13.7	0.4
100°-110°	66.1	1.7
110°-120°	162.0	4.2
120°-130°	205.7	5.3
130°-140°	219.7	5.7
140°-150°	205.5	5.3
150°-160°	165.7	4.3
160°-170°	106.9	2.8
170°-180°	36.9	0.9
0°-30°	1107.4	28.5
0°-40°	1592.9	41.0
0°-60°	2350.4	60.6
0°-90°	2699.4	69.5
90°-120°	241.8	6.2
90°-150°	872.6	22.5
90°-180°	1182.0	30.5
0°-180°	3881.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2035	2035	2035	2035	2035	
5°	2408	2331	2040	1649	1531	220
15°	1456	1968	1948	1047	870	411
25°	724	1084	1737	736	661	342
35°	523	660	1424	578	513	326
45°	372	466	1029	433	380	289
55°	248	320	639	300	237	222
65°	151	190	352	181	156	148
75°	66	80	159	83	68	71
85°	18	20	33	21	20	20
90°	9	7	0	7	9	5
95°	11	9	18	9	11	9
105°	13	63	86	63	13	26
115°	169	165	161	165	169	159
125°	232	230	227	230	232	207
135°	286	286	283	286	286	220
145°	329	329	326	329	329	206
155°	359	359	359	359	359	165
165°	378	378	379	378	378	107
175°	386	387	388	387	386	37
180°	388	388	388	388	388	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2255.7	2248.6	2241.5	2239.4	2237.3	2230.6	2224.0	2208.9	2193.9	2178.5	2163.0
5°	2407.6	2408.4	2409.2	2407.1	2405.1	2396.3	2387.5	2369.2	2350.8	2330.8	2310.8
7.5°	2360.8	2374.2	2387.5	2390.0	2392.5	2399.2	2405.9	2401.7	2397.5	2390.0	2382.5
10°	2156.4	2155.5	2154.7	2169.7	2184.7	2229.4	2274.0	2297.0	2319.9	2340.4	2360.8
12.5°	1822.6	1823.8	1825.1	1874.3	1923.5	1965.7	2007.8	2066.2	2124.7	2187.7	2250.7
15°	1456.2	1476.7	1497.1	1540.9	1584.7	1648.2	1711.6	1790.0	1868.5	1968.2	2067.9
17.5°	1195.9	1204.6	1213.4	1255.5	1297.7	1357.7	1417.8	1506.7	1595.6	1724.1	1852.6
20°	985.6	993.5	1001.4	1031.9	1062.3	1119.9	1177.5	1262.2	1346.9	1474.2	1601.4
22.5°	822.8	838.3	853.7	874.1	894.6	936.3	978.0	1064.4	1150.8	1266.8	1382.8
25°	724.4	731.4	738.5	756.1	773.6	813.6	853.7	910.9	968.0	1083.6	1199.2
27.5°	657.6	659.7	661.8	674.7	687.6	713.5	739.4	792.4	845.4	940.5	1035.6
30°	602.5	606.3	610.0	620.0	630.1	648.8	667.6	705.2	742.7	827.8	913.0
32.5°	560.0	562.0	564.1	572.5	580.8	594.6	608.4	638.0	667.6	732.7	797.8
35°	523.2	523.7	524.1	530.3	536.6	549.9	563.3	587.9	612.5	660.5	708.5
37.5°	481.5	484.4	487.4	491.9	496.5	508.2	519.9	539.9	560.0	599.6	639.2
40°	446.5	449.0	451.5	456.9	462.3	471.5	480.7	499.0	517.4	551.6	585.8
42.5°	411.4	413.1	414.8	420.2	425.6	436.9	448.1	462.7	477.3	505.7	534.1
45°	372.2	376.4	380.5	386.4	392.2	401.8	411.4	426.4	441.5	465.7	489.9
47.5°	339.6	341.7	343.8	348.8	353.8	365.5	377.2	390.6	403.9	426.4	449.0
50°	307.1	307.9	308.8	313.4	317.9	328.4	338.8	354.2	369.7	390.6	411.4
52.5°	276.2	278.3	280.4	285.0	289.6	296.7	303.8	319.6	335.5	355.9	376.4
55°	247.8	249.1	250.4	253.7	257.0	265.4	273.7	287.5	301.3	320.0	338.8
57.5°	221.1	222.8	224.5	227.0	229.5	237.0	244.5	256.6	268.7	287.5	306.3
60°	193.6	195.7	197.8	200.7	203.6	209.5	215.3	226.2	237.0	253.7	270.4
62.5°	173.6	174.0	174.4	176.9	179.4	183.6	187.8	196.5	205.3	222.0	238.7
65°	151.0	152.3	153.5	154.8	156.1	159.4	162.7	170.2	177.8	190.3	202.8
67.5°	127.7	128.9	130.2	132.3	134.4	137.3	140.2	145.2	150.2	161.9	173.6
70°	99.3	99.3	99.3	102.6	106.0	111.0	116.0	119.8	123.5	133.1	142.7
72.5°	80.9	81.4	81.8	82.2	82.6	85.5	88.5	94.7	101.0	106.8	112.7
75°	65.9	66.3	66.8	67.2	67.6	68.4	69.3	71.4	73.4	80.1	86.8
77.5°	52.6	53.0	53.4	53.8	54.2	55.1	55.9	56.7	57.6	60.1	62.6
80°	40.1	40.5	40.9	41.3	41.7	42.1	42.6	43.4	44.2	45.5	46.7
82.5°	29.2	29.2	29.2	29.2	29.2	30.0	30.9	30.9	30.9	31.7	32.5
85°	18.4	18.4	18.4	18.8	19.2	19.2	19.2	19.6	20.0	20.0	20.0
87.5°	8.3	7.9	7.5	7.9	8.3	8.3	8.3	8.8	9.2	9.2	9.2
90°	8.6	8.5	8.4	8.3	8.1	7.9	7.7	7.4	7.2	6.9	6.1
92.5°	9.8	9.7	9.7	9.6	9.5	9.3	8.8	8.4	7.9	7.5	6.9
95°	10.9	10.9	10.9	10.9	10.9	10.7	10.3	9.8	9.4	8.9	8.2
97.5°	11.8	11.7	11.7	11.6	11.6	11.3	10.8	10.2	9.7	9.2	12.5
100°	12.1	12.0	12.0	11.9	11.8	11.6	11.0	10.5	10.0	9.5	19.5
102.5°	12.4	12.3	12.1	12.0	11.9	12.9	15.0	17.1	19.2	21.3	32.5
105°	12.7	12.5	12.4	12.3	12.2	17.8	29.1	40.4	51.8	63.1	68.9
107.5°	30.0	38.3	46.7	55.1	63.5	72.6	82.5	92.4	102.2	112.1	111.1
110°	79.2	88.4	97.5	106.7	115.8	121.5	123.6	125.7	127.8	129.9	129.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	150.1	150.2	150.4	150.5	150.6	150.4	149.8	149.2	148.7	148.1	147.4
115°	169.4	169.1	168.9	168.6	168.4	167.9	167.3	166.7	166.0	165.4	164.8
117.5°	185.0	184.9	184.8	184.8	184.7	184.4	183.9	183.4	182.9	182.4	182.0
120°	201.1	201.1	201.1	201.1	201.1	200.8	200.3	199.8	199.3	198.8	198.6
122.5°	216.9	216.9	216.8	216.7	216.7	216.5	216.2	215.9	215.5	215.2	215.0
125°	231.6	231.5	231.4	231.2	231.1	231.0	230.9	230.7	230.6	230.5	230.2
127.5°	246.0	246.2	246.3	246.4	246.6	246.5	246.3	246.1	245.9	245.8	245.4
130°	259.9	260.0	260.1	260.3	260.4	260.3	260.1	259.8	259.5	259.3	259.0
132.5°	272.5	272.7	272.9	273.1	273.3	273.3	273.0	272.8	272.5	272.3	272.1
135°	285.5	285.7	285.9	286.1	286.3	286.3	286.1	285.9	285.7	285.5	285.3
137.5°	297.9	298.0	298.2	298.3	298.4	298.3	298.0	297.7	297.4	297.0	296.9
140°	308.8	309.0	309.1	309.2	309.4	309.3	309.0	308.8	308.5	308.3	308.1
142.5°	318.9	319.1	319.3	319.5	319.7	319.7	319.5	319.3	319.1	318.9	318.7
145°	329.3	329.3	329.3	329.3	329.3	329.2	329.1	329.0	328.9	328.7	328.6
147.5°	336.8	337.1	337.4	337.8	338.1	338.2	338.0	337.9	337.8	337.7	337.5
150°	345.4	345.6	345.8	346.0	346.2	346.2	346.1	346.0	345.8	345.7	345.6
152.5°	352.3	352.7	353.0	353.3	353.6	353.7	353.4	353.1	352.9	352.6	352.6
155°	358.7	359.1	359.5	359.8	360.2	360.3	359.9	359.6	359.3	359.0	358.9
157.5°	364.2	364.7	365.2	365.7	366.2	366.3	365.9	365.5	365.1	364.7	364.8
160°	369.3	369.8	370.2	370.7	371.1	371.2	370.8	370.4	370.0	369.6	369.7
162.5°	374.2	374.6	375.0	375.4	375.8	375.7	375.3	374.9	374.4	374.0	374.0
165°	378.0	378.4	378.9	379.3	379.8	379.7	379.2	378.7	378.2	377.7	377.8
167.5°	380.9	381.4	381.9	382.4	382.9	382.9	382.4	381.9	381.4	380.9	380.9
170°	383.5	384.0	384.5	385.0	385.5	385.5	385.0	384.5	384.0	383.5	383.5
172.5°	384.9	385.5	386.1	386.6	387.2	387.2	386.7	386.2	385.7	385.2	385.1
175°	386.3	386.9	387.4	387.9	388.4	388.4	388.0	387.5	387.1	386.6	386.6
177.5°	386.6	387.3	387.9	388.6	389.2	389.3	388.7	388.2	387.7	387.2	387.1
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2161.0	2158.9	2138.8	2118.8	2099.2	2079.6	2065.0	2050.4	2025.8	2001.2	1985.7
5°	2294.9	2279.0	2247.3	2215.6	2168.1	2120.5	2080.4	2040.4	1989.5	1938.6	1896.0
7.5°	2369.6	2356.7	2318.3	2279.9	2216.9	2153.9	2091.3	2028.7	1953.6	1878.5	1814.2
10°	2371.7	2382.5	2350.8	2319.1	2248.2	2177.2	2092.1	2007.0	1906.0	1805.0	1722.0
12.5°	2297.4	2344.1	2337.5	2330.8	2258.6	2186.4	2082.9	1979.5	1855.5	1731.6	1627.7
15°	2158.5	2249.0	2275.7	2302.4	2242.7	2183.1	2065.4	1947.7	1802.1	1656.5	1537.2
17.5°	1979.5	2106.3	2176.8	2247.3	2203.9	2160.5	2031.6	1902.7	1738.7	1574.7	1445.0
20°	1767.5	1933.6	2044.1	2154.7	2138.8	2123.0	1989.9	1856.8	1679.9	1503.0	1362.3
22.5°	1558.0	1733.3	1886.0	2038.7	2055.0	2071.3	1936.9	1802.5	1608.9	1415.3	1272.2
25°	1377.4	1555.5	1737.4	1919.4	1956.1	1992.8	1865.1	1737.4	1536.7	1336.1	1193.8
27.5°	1205.0	1374.4	1574.7	1775.0	1841.8	1908.5	1791.7	1674.9	1465.8	1256.8	1114.9
30°	1064.4	1215.9	1420.3	1624.8	1717.8	1810.9	1703.7	1596.4	1389.0	1181.7	1042.7
32.5°	933.4	1069.0	1274.3	1479.6	1587.7	1695.7	1603.1	1510.5	1311.0	1111.6	974.3
35°	829.9	951.3	1142.9	1334.4	1455.4	1576.4	1500.4	1424.5	1229.7	1034.8	905.0
37.5°	741.0	842.9	1022.7	1202.5	1331.0	1459.6	1396.1	1332.7	1149.5	966.4	843.7
40°	667.6	749.4	916.7	1084.0	1210.0	1336.1	1281.8	1227.6	1063.6	899.6	784.9
42.5°	604.6	675.1	825.3	975.5	1091.1	1206.7	1170.8	1134.9	986.4	837.8	731.4
45°	549.1	608.4	740.6	872.9	979.3	1085.7	1057.3	1029.0	900.9	772.8	675.1
47.5°	499.9	550.8	668.9	786.9	882.5	978.0	951.8	925.5	819.5	713.5	624.6
50°	454.8	498.2	596.7	695.1	781.1	867.1	845.4	823.7	736.0	648.4	571.6
52.5°	412.2	448.1	536.6	625.0	694.3	763.6	746.9	730.2	662.6	595.0	525.3
55°	371.8	404.7	479.4	554.1	613.4	672.6	655.9	639.2	586.7	534.1	472.7
57.5°	335.1	363.8	424.3	484.9	532.0	579.1	571.2	563.3	519.5	475.7	425.2
60°	296.3	322.1	374.3	426.4	464.4	502.4	493.2	484.0	452.7	421.4	378.0
62.5°	261.6	284.6	326.3	368.0	398.9	429.8	423.1	416.4	392.6	368.9	333.0
65°	225.3	247.8	281.6	315.4	339.6	363.8	358.0	352.2	334.2	316.3	287.5
67.5°	192.4	211.1	240.3	269.5	285.8	302.1	298.8	295.4	281.6	267.9	245.3
70°	159.0	175.2	199.4	223.6	234.9	246.2	247.4	248.7	236.2	223.6	207.0
72.5°	125.6	138.5	161.1	183.6	192.4	201.1	200.7	200.3	192.8	185.3	170.2
75°	96.4	106.0	123.5	141.0	148.5	156.1	157.7	159.4	152.3	145.2	136.9
77.5°	69.3	75.9	89.3	102.6	111.0	119.3	120.2	121.0	117.7	114.3	106.4
80°	48.8	50.9	59.3	67.6	76.4	85.1	86.4	87.6	84.3	80.9	75.9
82.5°	33.8	35.0	38.0	40.9	48.0	55.1	56.7	58.4	56.7	55.1	49.7
85°	20.4	20.9	22.1	23.4	26.7	30.0	31.7	33.4	32.5	31.7	28.8
87.5°	9.2	9.2	9.6	10.0	10.8	11.7	13.8	15.9	14.6	13.4	12.1
90°	5.2	4.4	3.6	2.8	2.2	1.6	0.9	0.3	0.9	1.6	2.2
92.5°	6.3	5.8	5.2	5.1	5.5	5.9	6.2	6.6	6.2	5.9	5.5
95°	7.5	6.8	6.1	7.1	9.7	12.3	14.9	17.6	14.9	12.3	9.7
97.5°	15.7	19.0	22.3	24.8	26.6	28.4	30.2	32.0	30.2	28.4	26.6
100°	29.5	39.5	49.5	53.8	52.5	51.3	50.0	48.7	50.0	51.3	52.5
102.5°	43.6	54.7	65.9	71.0	70.2	69.4	68.5	67.7	68.5	69.4	70.2
105°	74.6	80.4	86.1	88.7	88.0	87.3	86.6	85.9	86.6	87.3	88.0
107.5°	110.2	109.2	108.2	107.5	106.9	106.3	105.7	105.2	105.7	106.3	106.9
110°	128.5	127.8	127.1	126.5	126.0	125.5	125.0	124.5	125.0	125.5	126.0





TEST NUMBER: P832374

CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	146.7	146.0	145.3	144.7	144.2	143.8	143.3	142.9	143.3	143.8	144.2
115°	164.2	163.6	163.1	162.6	162.2	161.8	161.4	161.0	161.4	161.8	162.2
117.5°	181.7	181.4	181.1	180.7	180.3	179.8	179.4	178.9	179.4	179.8	180.3
120°	198.4	198.2	198.0	197.6	197.1	196.5	195.9	195.3	195.9	196.5	197.1
122.5°	214.7	214.4	214.2	213.8	213.4	212.9	212.5	212.0	212.5	212.9	213.4
125°	230.0	229.7	229.5	229.1	228.6	228.0	227.5	227.0	227.5	228.0	228.6
127.5°	245.1	244.8	244.5	244.1	243.5	243.0	242.5	242.0	242.5	243.0	243.5
130°	258.8	258.5	258.3	257.9	257.4	256.9	256.3	255.8	256.3	256.9	257.4
132.5°	271.9	271.7	271.5	271.1	270.6	270.1	269.6	269.1	269.6	270.1	270.6
135°	285.0	284.7	284.5	284.2	283.8	283.4	283.0	282.6	283.0	283.4	283.8
137.5°	296.8	296.6	296.5	296.2	295.7	295.2	294.7	294.2	294.7	295.2	295.7
140°	307.9	307.7	307.5	307.2	306.8	306.4	306.1	305.7	306.1	306.4	306.8
142.5°	318.5	318.4	318.2	317.9	317.5	317.1	316.7	316.3	316.7	317.1	317.5
145°	328.5	328.3	328.2	327.9	327.5	327.0	326.6	326.1	326.6	327.0	327.5
147.5°	337.4	337.3	337.1	336.9	336.6	336.3	336.0	335.6	336.0	336.3	336.6
150°	345.5	345.3	345.2	345.0	344.9	344.7	344.5	344.3	344.5	344.7	344.9
152.5°	352.5	352.4	352.4	352.3	352.3	352.2	352.1	352.1	352.1	352.2	352.3
155°	358.8	358.8	358.7	358.8	358.9	359.0	359.1	359.3	359.1	359.0	358.9
157.5°	364.9	364.9	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0
160°	369.8	369.8	369.9	370.0	370.0	370.1	370.1	370.2	370.1	370.1	370.0
162.5°	374.1	374.1	374.2	374.3	374.5	374.7	374.9	375.1	374.9	374.7	374.5
165°	377.8	377.9	378.0	378.1	378.3	378.5	378.7	378.9	378.7	378.5	378.3
167.5°	380.9	380.9	380.9	381.0	381.3	381.5	381.8	382.0	381.8	381.5	381.3
170°	383.5	383.5	383.5	383.6	383.8	384.1	384.4	384.6	384.4	384.1	383.8
172.5°	385.1	385.0	384.9	385.1	385.4	385.7	386.0	386.3	386.0	385.7	385.4
175°	386.5	386.4	386.4	386.5	386.8	387.1	387.5	387.8	387.5	387.1	386.8
177.5°	387.1	387.0	387.0	387.1	387.4	387.7	388.0	388.4	388.0	387.7	387.4
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8



TEST NUMBER: P832374

CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	1970.3	1946.5	1922.7	1905.6	1888.5	1867.2	1845.9	1845.1	1844.3	1828.4	1812.6
5°	1853.4	1812.1	1770.8	1730.4	1689.9	1649.4	1608.9	1599.8	1590.6	1576.8	1563.0
7.5°	1750.0	1684.0	1618.1	1566.4	1514.6	1474.2	1433.7	1406.1	1378.6	1357.3	1336.1
10°	1639.0	1557.2	1475.4	1412.8	1350.2	1306.4	1262.6	1230.9	1199.2	1184.2	1169.1
12.5°	1523.8	1434.9	1346.1	1284.7	1223.4	1170.8	1118.2	1089.5	1060.7	1039.8	1018.9
15°	1417.8	1322.3	1226.7	1161.6	1096.5	1047.3	998.1	969.3	940.5	919.6	898.8
17.5°	1315.2	1218.8	1122.4	1056.5	990.6	945.9	901.3	873.3	845.4	832.4	819.5
20°	1221.7	1124.5	1027.3	965.1	902.9	859.1	815.3	800.3	785.3	773.2	761.1
22.5°	1129.1	1035.6	942.2	882.5	822.8	791.1	759.4	747.3	735.2	726.0	716.8
25°	1051.5	958.4	865.4	813.2	761.1	736.5	711.8	703.9	696.0	686.8	677.6
27.5°	973.0	884.6	796.1	754.4	712.7	692.6	672.6	662.6	652.6	645.1	637.6
30°	903.8	822.0	740.2	705.6	670.9	653.4	635.9	625.0	614.2	607.1	600.0
32.5°	837.0	764.4	691.8	662.2	632.6	615.5	598.3	587.9	577.5	569.1	560.8
35°	775.3	712.3	649.2	622.1	595.0	577.9	560.8	550.4	539.9	531.6	523.2
37.5°	721.0	663.9	606.7	581.2	555.8	540.8	525.7	514.9	504.0	495.3	486.5
40°	670.1	619.6	569.1	544.5	519.9	503.6	487.4	477.8	468.2	460.2	452.3
42.5°	625.0	578.7	532.4	508.2	484.0	468.6	453.1	441.9	430.6	426.0	421.4
45°	577.5	536.6	495.7	472.3	449.0	432.7	416.4	406.8	397.2	393.1	388.9
47.5°	535.8	497.8	459.8	436.9	413.9	399.3	384.7	377.2	369.7	363.8	358.0
50°	494.9	458.1	421.4	399.3	377.2	364.7	352.2	343.0	333.8	329.6	325.5
52.5°	455.6	422.3	388.9	366.3	343.8	331.7	319.6	311.7	303.8	295.0	286.2
55°	411.4	382.2	353.0	333.0	312.9	300.4	287.9	278.7	269.5	260.4	251.2
57.5°	374.7	345.9	317.1	299.2	281.2	269.1	257.0	247.0	237.0	229.5	222.0
60°	334.6	309.6	284.6	267.0	249.5	237.8	226.2	216.6	207.0	203.2	199.4
62.5°	297.1	273.7	250.4	234.9	219.5	208.2	196.9	190.7	184.4	181.9	179.4
65°	258.7	238.7	218.6	204.5	190.3	180.7	171.1	168.2	165.2	163.1	161.1
67.5°	222.8	205.7	188.6	176.1	163.6	156.9	150.2	146.9	143.5	141.0	138.5
70°	190.3	175.2	160.2	149.4	138.5	132.3	126.0	123.1	120.2	115.6	111.0
72.5°	155.2	143.5	131.9	123.5	115.2	109.7	104.3	98.5	92.6	88.5	84.3
75°	128.5	116.8	105.1	97.2	89.3	83.0	76.8	74.7	72.6	71.4	70.1
77.5°	98.5	88.5	78.4	72.2	65.9	63.0	60.1	58.8	57.6	57.2	56.7
80°	70.9	62.6	54.2	50.9	47.6	46.7	45.9	45.1	44.2	43.8	43.4
82.5°	44.2	40.1	35.9	35.0	34.2	33.8	33.4	33.0	32.5	32.1	31.7
85°	25.9	24.2	22.5	22.1	21.7	21.3	20.9	20.9	20.9	20.9	20.9
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.4	10.0
90°	2.8	3.6	4.4	5.2	6.1	6.9	7.2	7.4	7.7	7.9	8.1
92.5°	5.1	5.2	5.8	6.3	6.9	7.5	7.9	8.4	8.8	9.3	9.5
95°	7.1	6.1	6.8	7.5	8.2	8.9	9.4	9.8	10.3	10.7	10.9
97.5°	24.8	22.3	19.0	15.7	12.5	9.2	9.7	10.2	10.8	11.3	11.6
100°	53.8	49.5	39.5	29.5	19.5	9.5	10.0	10.5	11.0	11.6	11.8
102.5°	71.0	65.9	54.7	43.6	32.5	21.3	19.2	17.1	15.0	12.9	11.9
105°	88.7	86.1	80.4	74.6	68.9	63.1	51.8	40.4	29.1	17.8	12.2
107.5°	107.5	108.2	109.2	110.2	111.1	112.1	102.2	92.4	82.5	72.6	63.5
110°	126.5	127.1	127.8	128.5	129.2	129.9	127.8	125.7	123.6	121.5	115.8



TEST NUMBER: P832374

CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	144.7	145.3	146.0	146.7	147.4	148.1	148.7	149.2	149.8	150.4	150.6
115°	162.6	163.1	163.6	164.2	164.8	165.4	166.0	166.7	167.3	167.9	168.4
117.5°	180.7	181.1	181.4	181.7	182.0	182.4	182.9	183.4	183.9	184.4	184.7
120°	197.6	198.0	198.2	198.4	198.6	198.8	199.3	199.8	200.3	200.8	201.1
122.5°	213.8	214.2	214.4	214.7	215.0	215.2	215.5	215.9	216.2	216.5	216.7
125°	229.1	229.5	229.7	230.0	230.2	230.5	230.6	230.7	230.9	231.0	231.1
127.5°	244.1	244.5	244.8	245.1	245.4	245.8	245.9	246.1	246.3	246.5	246.6
130°	257.9	258.3	258.5	258.8	259.0	259.3	259.5	259.8	260.1	260.3	260.4
132.5°	271.1	271.5	271.7	271.9	272.1	272.3	272.5	272.8	273.0	273.3	273.3
135°	284.2	284.5	284.7	285.0	285.3	285.5	285.7	285.9	286.1	286.3	286.3
137.5°	296.2	296.5	296.6	296.8	296.9	297.0	297.4	297.7	298.0	298.3	298.4
140°	307.2	307.5	307.7	307.9	308.1	308.3	308.5	308.8	309.0	309.3	309.4
142.5°	317.9	318.2	318.4	318.5	318.7	318.9	319.1	319.3	319.5	319.7	319.7
145°	327.9	328.2	328.3	328.5	328.6	328.7	328.9	329.0	329.1	329.2	329.3
147.5°	336.9	337.1	337.3	337.4	337.5	337.7	337.8	337.9	338.0	338.2	338.1
150°	345.0	345.2	345.3	345.5	345.6	345.7	345.8	346.0	346.1	346.2	346.2
152.5°	352.3	352.4	352.4	352.5	352.6	352.6	352.9	353.1	353.4	353.7	353.6
155°	358.8	358.7	358.8	358.8	358.9	359.0	359.3	359.6	359.9	360.3	360.2
157.5°	365.0	365.0	364.9	364.9	364.8	364.7	365.1	365.5	365.9	366.3	366.2
160°	370.0	369.9	369.8	369.8	369.7	369.6	370.0	370.4	370.8	371.2	371.1
162.5°	374.3	374.2	374.1	374.1	374.0	374.0	374.4	374.9	375.3	375.7	375.8
165°	378.1	378.0	377.9	377.8	377.8	377.7	378.2	378.7	379.2	379.7	379.8
167.5°	381.0	380.9	380.9	380.9	380.9	380.9	381.4	381.9	382.4	382.9	382.9
170°	383.6	383.5	383.5	383.5	383.5	383.5	384.0	384.5	385.0	385.5	385.5
172.5°	385.1	384.9	385.0	385.1	385.1	385.2	385.7	386.2	386.7	387.2	387.2
175°	386.5	386.4	386.4	386.5	386.6	386.6	387.1	387.5	388.0	388.4	388.4
177.5°	387.1	387.0	387.0	387.1	387.1	387.2	387.7	388.2	388.7	389.3	389.2
180°	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8	387.8

TEST NUMBER: P832374

CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2035.4	2035.4	2035.4	2035.4
2.5°	1808.4	1804.2	1802.5	1800.9
5°	1550.1	1537.2	1534.2	1531.3
7.5°	1330.6	1325.2	1307.3	1289.3
10°	1152.5	1135.8	1128.3	1120.7
12.5°	1003.5	988.1	985.6	983.1
15°	887.9	877.1	873.3	869.6
17.5°	812.0	804.5	799.9	795.3
20°	755.6	750.2	746.9	743.5
22.5°	712.7	708.5	706.0	703.5
25°	671.4	665.1	663.0	660.9
27.5°	632.1	626.7	624.6	622.5
30°	595.4	590.8	587.9	585.0
32.5°	555.4	549.9	548.3	546.6
35°	519.9	516.6	514.9	513.2
37.5°	482.3	478.2	475.7	473.2
40°	450.2	448.1	446.9	445.6
42.5°	417.7	413.9	413.5	413.1
45°	385.1	381.4	380.5	379.7
47.5°	354.7	351.3	350.9	350.5
50°	320.9	316.3	312.9	309.6
52.5°	282.1	277.9	275.0	272.1
55°	246.6	242.0	239.5	237.0
57.5°	219.9	217.8	216.6	215.3
60°	198.2	196.9	196.1	195.3
62.5°	178.2	176.9	176.9	176.9
65°	159.8	158.6	157.3	156.1
67.5°	136.0	133.5	133.1	132.7
70°	107.2	103.5	103.1	102.6
72.5°	83.9	83.5	82.6	81.8
75°	69.3	68.4	68.4	68.4
77.5°	55.9	55.1	55.1	55.1
80°	43.0	42.6	43.0	43.4
82.5°	31.7	31.7	31.3	30.9
85°	20.4	20.0	20.0	20.0
87.5°	10.0	10.0	10.0	10.0
90°	8.3	8.4	8.5	8.6
92.5°	9.6	9.7	9.7	9.8
95°	10.9	10.9	10.9	10.9
97.5°	11.6	11.7	11.7	11.8
100°	11.9	12.0	12.0	12.1
102.5°	12.0	12.1	12.3	12.4
105°	12.3	12.4	12.5	12.7
107.5°	55.1	46.7	38.3	30.0
110°	106.7	97.5	88.4	79.2



TEST NUMBER: P832374

CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	150.5	150.4	150.2	150.1
115°	168.6	168.9	169.1	169.4
117.5°	184.8	184.8	184.9	185.0
120°	201.1	201.1	201.1	201.1
122.5°	216.7	216.8	216.9	216.9
125°	231.2	231.4	231.5	231.6
127.5°	246.4	246.3	246.2	246.0
130°	260.3	260.1	260.0	259.9
132.5°	273.1	272.9	272.7	272.5
135°	286.1	285.9	285.7	285.5
137.5°	298.3	298.2	298.0	297.9
140°	309.2	309.1	309.0	308.8
142.5°	319.5	319.3	319.1	318.9
145°	329.3	329.3	329.3	329.3
147.5°	337.8	337.4	337.1	336.8
150°	346.0	345.8	345.6	345.4
152.5°	353.3	353.0	352.7	352.3
155°	359.8	359.5	359.1	358.7
157.5°	365.7	365.2	364.7	364.2
160°	370.7	370.2	369.8	369.3
162.5°	375.4	375.0	374.6	374.2
165°	379.3	378.9	378.4	378.0
167.5°	382.4	381.9	381.4	380.9
170°	385.0	384.5	384.0	383.5
172.5°	386.6	386.1	385.5	384.9
175°	387.9	387.4	386.9	386.3
177.5°	388.6	387.9	387.3	386.6
180°	387.8	387.8	387.8	387.8



TEST NUMBER: P832374

CATALOG NUMBER: S123RDIP-S775D365U930-4F0-1E-UDD-G

**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	13.14	14.13	13.93	14.92	15.89	17.81	18.79	18.59	19.59	20.55
	3H	14.38	15.26	15.17	16.06	17.06	19.32	20.20	20.11	21.00	22.00
	4H	14.77	15.59	15.58	16.41	17.42	19.82	20.64	20.63	21.46	22.47
	6H	15.05	15.82	15.88	16.64	17.66	20.13	20.90	20.96	21.72	22.74
	8H	15.15	15.87	15.98	16.71	17.73	20.22	20.94	21.05	21.78	22.80
	12H	15.20	15.89	16.04	16.72	17.77	20.25	20.94	21.09	21.78	22.82
4H	2H	13.89	14.71	14.70	15.53	16.54	17.82	18.65	18.64	19.46	20.47
	3H	15.27	15.95	16.10	16.80	17.83	19.49	20.18	20.32	21.03	22.05
	4H	15.73	16.35	16.57	17.20	18.25	20.11	20.73	20.95	21.57	22.63
	6H	16.10	16.64	16.96	17.51	18.57	20.55	21.09	21.41	21.96	23.01
	8H	16.23	16.73	17.09	17.60	18.67	20.68	21.19	21.54	22.05	23.12
	12H	16.32	16.77	17.19	17.65	18.72	20.75	21.20	21.63	22.09	23.16
8H	4H	16.05	16.55	16.91	17.42	18.49	20.08	20.58	20.94	21.45	22.52
	6H	16.52	16.94	17.41	17.84	18.91	20.58	21.00	21.47	21.90	22.97
	8H	16.72	17.08	17.61	17.98	19.07	20.77	21.14	21.67	22.04	23.12
	12H	16.86	17.18	17.76	18.08	19.22	20.89	21.21	21.79	22.11	23.25
12H	4H	16.07	16.52	16.95	17.41	18.48	20.04	20.49	20.92	21.37	22.45
	6H	16.58	16.95	17.48	17.85	18.93	20.56	20.92	21.46	21.83	22.91
	8H	16.81	17.13	17.71	18.02	19.16	20.76	21.08	21.66	21.97	23.11