

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: P831715

Luminaire Tested: S123DIP-S775D805U940-4F0-1E-UDD-G1

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831715  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, G3-1807-864-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S775D805U940-4F0-1E-UDD-G1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: -

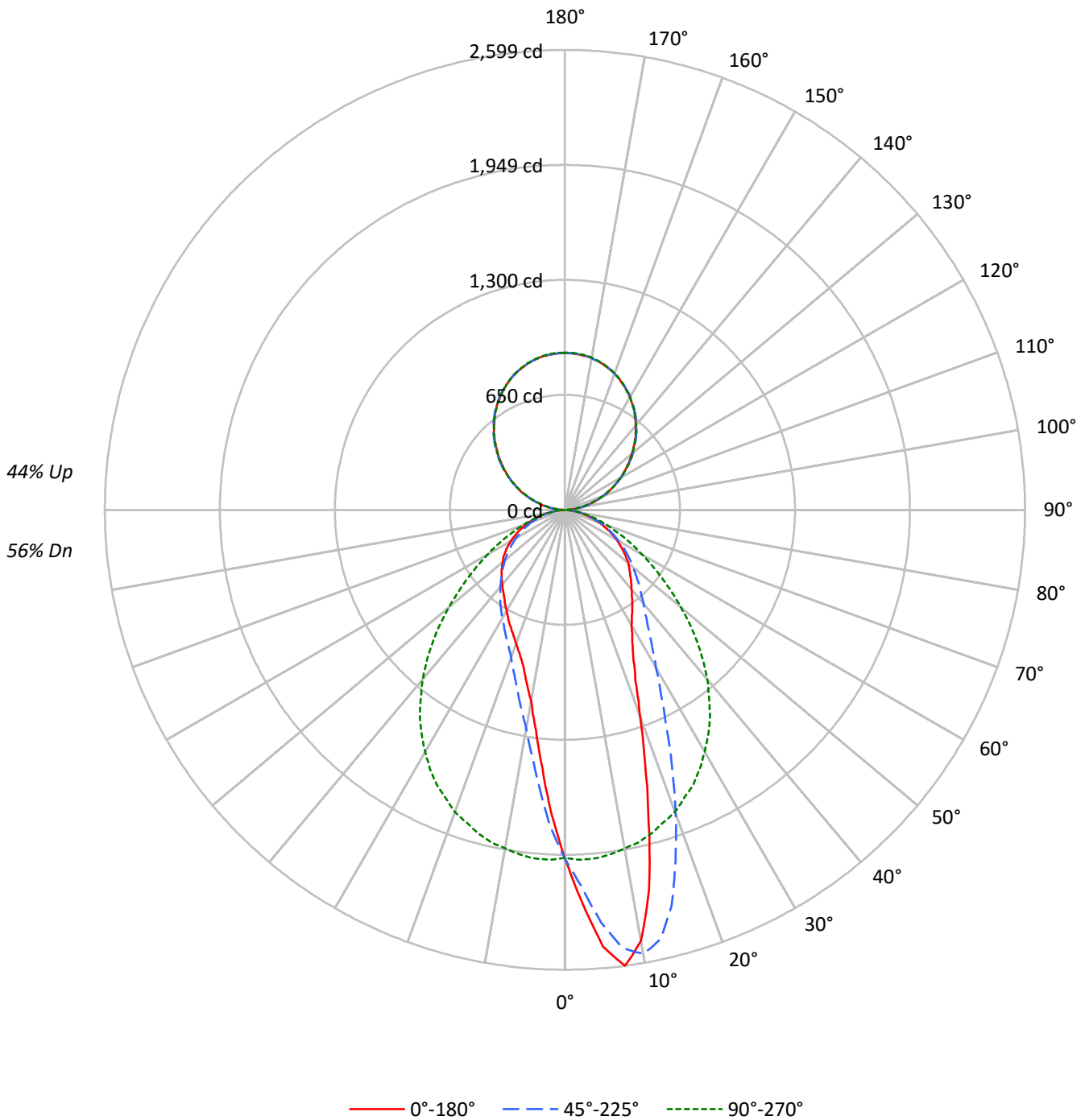
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5623.6 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 46.5  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				56
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	54	53				49	
2	91	84	78	73	85	79	74	69	68	64	61	59	56	53	50	48	46				42	
3	84	75	68	62	78	70	64	59	61	56	52	52	49	46	45	42	40				36	
4	77	67	59	53	72	62	56	50	55	49	45	47	43	40	40	38	35				32	
5	71	60	52	46	66	56	49	44	49	44	40	43	39	35	37	34	31				28	
6	66	54	46	41	61	51	44	39	45	39	35	39	35	31	34	30	28				25	
7	61	49	42	36	57	46	39	34	41	35	31	36	32	28	31	28	25				23	
8	57	45	37	32	53	43	36	31	38	32	28	33	29	26	29	25	23				21	
9	53	41	34	29	50	39	33	28	35	29	26	31	26	23	27	24	21				19	
10	50	38	31	26	47	36	30	25	32	27	23	29	24	21	25	22	19				17	

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

	0°	45°	90°	135°	180°
0°	21177	21177	21177	21177	21177
5°	26782	25278	21367	17219	15823
10°	27042	27860	21225	13726	11995
15°	20367	25867	21080	11624	10143
20°	14191	20931	20811	10165	9213
25°	10821	16096	20352	9352	8641
30°	9362	12788	19619	8777	8181
35°	8686	10797	18775	8361	7858
40°	8223	9686	17588	7966	7748
45°	7949	8965	16079	7657	7700
50°	7812	8393	14294	7376	7659
55°	7522	7976	12542	7111	7692
60°	7253	7528	10809	6859	7567
65°	6813	7103	9324	6592	7417
70°	6291	6565	7931	6150	6980
75°	5693	5885	6796	5714	6380
80°	4699	5151	5374	4978	5374
85°	3717	4174	3952	4224	4286

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 18358 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	3.3
10°-20°	462.7	8.2
20°-30°	547.9	9.7
30°-40°	550.9	9.8
40°-50°	505.4	9.0
50°-60°	417.2	7.4
60°-70°	295.1	5.2
70°-80°	157.5	2.8
80°-90°	41.8	0.7
90°-100°	57.1	1.0
100°-110°	172.9	3.1
110°-120°	294.4	5.2
120°-130°	387.3	6.9
130°-140°	435.3	7.7
140°-150°	428.0	7.6
150°-160°	360.3	6.4
160°-170°	239.9	4.3
170°-180°	84.0	1.5
0°-30°	1196.6	21.3
0°-40°	1747.5	31.1
0°-60°	2670.1	47.5
0°-90°	3164.6	56.3
90°-120°	524.4	9.3
90°-150°	1774.9	31.6
90°-180°	2459.0	43.7
0°-180°	5623.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1967	1967	1967	1967	1967	
5°	2479	2340	1978	1594	1464	236
15°	1828	2321	1892	1043	910	505
25°	911	1355	1714	787	728	430
35°	661	822	1429	636	598	415
45°	522	589	1056	503	506	404
55°	401	425	668	379	410	359
65°	268	279	366	259	291	266
75°	137	142	163	137	153	144
85°	30	34	32	34	35	34
90°	21	17	1	17	21	12
95°	54	52	41	52	54	55
105°	166	164	157	164	166	176
115°	297	297	296	297	297	294
125°	429	434	434	434	429	383
135°	562	566	563	566	562	432
145°	682	686	682	686	682	426
155°	780	782	782	782	780	359
165°	848	849	851	849	848	239
175°	882	883	885	883	882	84
180°	888	888	888	888	888	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	2217.6	2215.3	2213.0	2201.6	2190.2	2184.7	2179.2	2162.8	2146.4	2128.1	2109.8
5°	2478.7	2485.1	2491.5	2484.2	2476.9	2454.5	2432.1	2402.5	2372.8	2339.5	2306.1
7.5°	2599.2	2602.8	2606.5	2601.9	2597.4	2591.4	2585.5	2559.0	2532.5	2498.3	2464.1
10°	2474.1	2482.3	2490.6	2508.4	2526.2	2546.2	2566.3	2562.7	2559.0	2549.0	2538.9
12.5°	2199.3	2209.4	2219.4	2255.0	2290.6	2336.3	2381.9	2421.2	2460.4	2487.8	2515.2
15°	1827.7	1855.6	1883.4	1915.8	1948.3	2015.4	2082.5	2165.1	2247.7	2321.2	2394.7
17.5°	1505.5	1516.0	1526.5	1561.2	1595.9	1680.3	1764.8	1860.2	1955.6	2077.4	2199.3
20°	1238.9	1248.5	1258.1	1303.7	1349.4	1415.5	1481.7	1589.0	1696.3	1827.3	1958.3
22.5°	1040.8	1055.8	1070.9	1096.5	1122.0	1185.5	1248.9	1344.3	1439.7	1584.4	1729.1
25°	911.1	922.1	933.0	948.6	964.1	1014.8	1065.4	1143.9	1222.5	1355.3	1488.1
27.5°	822.6	827.1	831.7	847.2	862.7	895.6	928.5	996.0	1063.6	1176.3	1289.1
30°	753.2	756.4	759.6	773.3	787.0	809.3	831.7	880.5	929.4	1028.9	1128.4
32.5°	704.8	707.1	709.4	719.9	730.4	746.3	762.3	797.9	833.5	915.7	997.9
35°	661.0	662.4	663.7	671.5	679.2	691.1	703.0	729.9	756.8	821.7	886.5
37.5°	622.6	624.5	626.3	630.9	635.4	645.9	656.4	677.9	699.3	749.1	798.8
40°	585.2	588.4	591.6	594.8	598.0	606.7	615.3	631.8	648.2	689.3	730.4
42.5°	553.3	556.4	559.6	561.0	562.4	567.4	572.4	587.5	602.6	633.1	663.7
45°	522.2	523.6	525.0	526.3	527.7	531.8	535.9	549.1	562.4	588.9	615.3
47.5°	493.9	493.9	493.9	494.8	495.7	499.4	503.0	512.6	522.2	542.8	563.3
50°	466.5	466.5	466.5	465.2	463.8	466.1	468.3	475.7	483.0	501.2	519.5
52.5°	433.7	433.7	433.7	434.1	434.6	434.6	434.6	441.0	447.4	463.8	480.2
55°	400.8	402.6	404.4	403.1	401.7	402.6	403.5	407.6	411.7	425.0	438.2
57.5°	367.9	368.8	369.7	369.3	368.8	369.3	369.7	373.4	377.1	387.1	397.1
60°	336.9	336.9	336.9	336.0	335.1	336.0	336.9	338.7	340.5	349.7	358.8
62.5°	302.2	302.6	303.1	303.6	304.0	303.1	302.2	304.5	306.8	313.6	320.4
65°	267.5	268.0	268.4	269.8	271.1	270.2	269.3	271.6	273.9	278.9	283.9
67.5°	236.5	235.5	234.6	235.1	235.5	236.9	238.3	238.7	239.2	244.7	250.2
70°	199.9	200.9	201.8	201.3	200.9	201.3	201.8	203.1	204.5	208.6	212.7
72.5°	167.1	167.5	168.0	168.0	168.0	168.9	169.8	171.2	172.5	174.8	177.1
75°	136.9	136.9	136.9	137.9	138.8	139.2	139.7	139.7	139.7	141.5	143.3
77.5°	104.1	106.4	108.6	108.2	107.7	108.6	109.6	110.9	112.3	113.2	114.1
80°	75.8	75.8	75.8	76.2	76.7	78.1	79.4	80.3	81.3	83.1	84.9
82.5°	48.4	48.8	49.3	50.7	52.0	53.0	53.9	55.2	56.6	56.6	56.6
85°	30.1	29.2	28.3	29.2	30.1	31.0	32.0	32.4	32.9	33.8	34.7
87.5°	14.6	14.6	14.6	14.6	14.6	15.1	15.5	15.5	15.5	15.5	15.5
90°	20.9	20.6	20.3	20.0	19.7	19.2	18.6	18.0	17.4	16.7	14.7
92.5°	30.0	30.3	30.6	30.9	31.2	31.1	30.7	30.2	29.7	29.3	28.4
95°	54.4	54.4	54.4	54.4	54.4	54.1	53.5	52.8	52.2	51.6	50.4
97.5°	78.1	78.2	78.4	78.5	78.7	78.4	77.6	76.8	76.1	75.3	74.4
100°	106.0	105.7	105.4	105.0	104.7	104.3	103.9	103.4	102.9	102.5	101.7
102.5°	134.6	134.7	134.9	135.0	135.2	135.0	134.6	134.1	133.6	133.2	132.1
105°	165.9	165.6	165.3	165.0	164.7	164.5	164.5	164.5	164.5	164.5	163.1
107.5°	198.0	198.2	198.3	198.5	198.6	198.5	198.0	197.5	197.1	196.6	196.0
110°	230.8	231.1	231.4	231.7	232.0	231.9	231.2	230.6	230.0	229.4	229.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	265.6	265.6	265.6	265.6	265.6	265.2	264.5	263.7	262.9	262.1	262.1
115°	297.0	297.2	297.3	297.5	297.6	297.6	297.5	297.3	297.2	297.0	297.3
117.5°	329.1	329.5	330.0	330.5	330.9	331.2	331.2	331.2	331.2	331.2	331.5
120°	363.2	363.5	363.8	364.2	364.5	364.7	364.9	365.0	365.2	365.3	366.1
122.5°	396.0	396.5	396.9	397.4	397.9	398.3	398.8	399.3	399.7	400.2	400.5
125°	428.8	429.4	430.0	430.6	431.2	431.9	432.5	433.1	433.7	434.3	434.7
127.5°	461.5	462.2	462.8	463.4	464.0	464.8	465.7	466.6	467.6	468.5	468.8
130°	493.6	494.7	495.8	496.9	497.9	498.8	499.4	500.0	500.7	501.3	501.7
132.5°	527.1	527.8	528.6	529.4	530.2	530.9	531.7	532.5	533.3	534.0	534.3
135°	561.9	562.2	562.5	562.9	563.2	563.6	564.2	564.9	565.5	566.1	566.3
137.5°	592.6	593.1	593.5	594.0	594.5	595.1	595.9	596.6	597.4	598.2	597.7
140°	622.6	623.7	624.7	625.8	626.9	627.5	627.7	627.8	628.0	628.2	628.0
142.5°	653.3	654.0	654.8	655.6	656.4	656.8	657.0	657.1	657.3	657.4	657.1
145°	682.5	683.2	683.8	684.4	685.0	685.4	685.6	685.7	685.9	686.0	685.6
147.5°	709.0	710.0	710.9	711.8	712.7	713.2	713.2	713.2	713.2	713.2	712.7
150°	734.1	735.1	736.0	736.9	737.8	738.3	738.3	738.3	738.3	738.3	738.0
152.5°	758.5	759.3	760.1	760.9	761.6	761.9	761.5	761.2	760.9	760.6	760.5
155°	780.1	781.2	782.3	783.4	784.5	784.7	784.1	783.5	782.9	782.2	782.1
157.5°	800.4	801.3	802.2	803.1	804.1	804.2	803.6	803.0	802.4	801.8	801.6
160°	819.9	820.5	821.1	821.7	822.4	822.3	821.5	820.7	820.0	819.2	819.2
162.5°	834.5	835.6	836.7	837.8	838.9	839.0	838.2	837.5	836.7	835.9	835.8
165°	848.5	849.5	850.6	851.7	852.8	852.9	852.0	851.0	850.1	849.2	849.2
167.5°	861.0	861.9	862.9	863.8	864.7	864.7	863.8	862.9	861.9	861.0	860.9
170°	870.1	871.2	872.2	873.3	874.4	874.4	873.3	872.2	871.2	870.1	870.1
172.5°	877.0	878.1	879.2	880.3	881.4	881.5	880.5	879.6	878.7	877.7	877.7
175°	881.9	883.0	884.1	885.2	886.3	886.3	885.4	884.5	883.6	882.6	882.6
177.5°	884.7	885.8	886.9	888.0	889.1	889.1	888.2	887.3	886.3	885.4	885.4
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	2104.4	2098.9	2078.8	2058.7	2035.9	2013.1	1996.2	1979.3	1954.2	1929.1	1908.5
5°	2280.6	2255.0	2212.6	2170.1	2112.6	2055.1	2016.3	1977.5	1925.4	1873.4	1831.9
7.5°	2420.3	2376.4	2317.1	2257.7	2182.4	2107.1	2035.9	1964.7	1885.3	1805.8	1741.0
10°	2509.3	2479.6	2411.1	2342.7	2241.8	2140.9	2041.4	1941.9	1839.6	1737.4	1651.5
12.5°	2517.9	2520.7	2457.7	2394.7	2280.6	2166.5	2045.5	1924.5	1795.8	1667.1	1567.1
15°	2441.7	2488.7	2454.0	2419.3	2304.3	2189.3	2040.5	1891.7	1743.3	1594.9	1479.5
17.5°	2300.2	2401.1	2406.1	2411.1	2296.1	2181.1	2016.3	1851.5	1683.5	1515.5	1394.1
20°	2107.1	2255.9	2307.0	2358.2	2264.6	2171.0	1993.9	1816.8	1628.7	1440.7	1313.3
22.5°	1909.9	2090.7	2184.3	2277.8	2208.4	2139.1	1950.5	1762.0	1563.4	1364.9	1235.7
25°	1685.3	1882.5	2026.3	2170.1	2127.7	2085.2	1899.4	1713.6	1502.3	1290.9	1159.0
27.5°	1489.5	1689.9	1863.4	2036.8	2027.7	2018.6	1834.1	1649.7	1433.3	1217.0	1089.6
30°	1315.1	1501.8	1695.8	1889.8	1912.2	1934.6	1756.5	1578.5	1361.7	1144.9	1022.1
32.5°	1160.8	1323.8	1531.9	1740.1	1783.9	1827.7	1667.1	1506.4	1291.8	1077.3	959.1
35°	1034.4	1182.3	1390.4	1598.6	1653.4	1708.1	1568.5	1428.8	1219.7	1010.6	897.9
37.5°	922.5	1046.3	1249.4	1452.5	1519.6	1586.7	1461.6	1336.6	1140.7	944.9	841.3
40°	829.9	929.4	1116.1	1302.8	1380.4	1458.0	1354.8	1251.7	1065.9	880.1	784.7
42.5°	752.3	840.8	1010.2	1179.5	1253.9	1328.4	1241.2	1154.0	988.7	823.5	736.3
45°	686.1	756.8	910.7	1064.5	1135.3	1206.0	1131.2	1056.3	910.7	765.1	683.8
47.5°	624.0	684.7	816.2	947.7	1010.6	1073.6	1015.2	956.8	833.5	710.3	636.8
50°	568.3	617.2	732.2	847.2	902.0	956.8	905.2	853.6	752.3	650.9	587.0
52.5°	519.9	559.6	656.0	752.3	799.3	846.3	802.0	757.8	677.4	597.1	541.4
55°	472.0	505.8	589.3	672.9	704.8	736.8	702.5	668.3	603.5	538.6	491.6
57.5°	427.3	457.4	525.9	594.3	619.0	643.6	612.6	581.6	532.7	483.9	444.6
60°	383.4	408.1	465.2	522.2	537.3	552.3	527.2	502.1	467.9	433.7	398.5
62.5°	342.8	365.2	407.6	450.1	460.1	470.2	451.0	431.8	405.8	379.8	352.4
65°	300.8	317.7	352.4	387.1	393.5	399.9	383.0	366.1	346.5	326.8	306.8
67.5°	262.0	273.9	302.2	330.5	330.9	331.4	317.7	304.0	293.1	282.1	266.1
70°	224.1	235.5	254.3	273.0	273.4	273.9	262.9	252.0	243.8	235.5	223.7
72.5°	185.3	193.5	207.7	221.8	220.9	220.0	213.2	206.3	199.9	193.5	184.9
75°	150.2	157.0	166.6	176.2	173.5	170.7	167.1	163.4	157.9	152.5	147.0
77.5°	118.2	122.3	127.8	133.3	131.5	129.6	126.4	123.2	119.1	115.0	112.8
80°	86.7	88.6	92.2	95.9	94.9	94.0	90.4	86.7	85.8	84.9	81.7
82.5°	58.9	61.2	62.1	63.0	62.5	62.1	59.3	56.6	55.7	54.8	54.3
85°	35.1	35.6	36.1	36.5	35.1	33.8	32.9	32.0	32.0	32.0	31.5
87.5°	16.0	16.4	16.4	16.4	16.0	15.5	14.6	13.7	14.2	14.6	14.6
90°	12.7	10.7	8.7	6.9	5.3	3.8	2.2	0.7	2.2	3.8	5.3
92.5°	27.4	26.5	25.6	24.6	23.7	22.8	21.8	20.9	21.8	22.8	23.7
95°	49.1	47.9	46.6	45.5	44.4	43.3	42.2	41.1	42.2	43.3	44.4
97.5°	73.4	72.5	71.6	70.7	70.0	69.2	68.4	67.6	68.4	69.2	70.0
100°	100.9	100.2	99.4	98.5	97.6	96.7	95.7	94.8	95.7	96.7	97.6
102.5°	131.0	129.9	128.8	128.0	127.6	127.1	126.7	126.2	126.7	127.1	127.6
105°	161.7	160.4	159.0	158.1	157.8	157.5	157.2	156.9	157.2	157.5	157.8
107.5°	195.4	194.7	194.1	193.7	193.6	193.4	193.3	193.1	193.3	193.4	193.6
110°	228.8	228.4	228.1	227.8	227.5	227.2	226.9	226.6	226.9	227.2	227.5





TEST NUMBER: P831715

CATALOG NUMBER: S123DIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	262.1	262.1	262.1	262.1	261.9	261.8	261.6	261.4	261.6	261.8	261.9
115°	297.6	297.9	298.2	298.2	297.7	297.2	296.8	296.3	296.8	297.2	297.7
117.5°	331.8	332.1	332.4	332.5	332.3	332.2	332.0	331.9	332.0	332.2	332.3
120°	366.9	367.6	368.4	368.3	367.4	366.5	365.6	364.6	365.6	366.5	367.4
122.5°	400.8	401.1	401.4	401.3	400.6	400.0	399.4	398.8	399.4	400.0	400.6
125°	435.0	435.3	435.6	435.5	435.0	434.6	434.1	433.6	434.1	434.6	435.0
127.5°	469.1	469.4	469.7	469.4	468.5	467.6	466.6	465.7	466.6	467.6	468.5
130°	502.2	502.7	503.1	502.7	501.5	500.3	499.0	497.8	499.0	500.3	501.5
132.5°	534.7	535.0	535.3	534.8	533.6	532.3	531.1	529.9	531.1	532.3	533.6
135°	566.4	566.6	566.7	566.3	565.4	564.5	563.6	562.6	563.6	564.5	565.4
137.5°	597.2	596.8	596.3	595.7	594.9	594.1	593.4	592.6	593.4	594.1	594.9
140°	627.8	627.7	627.5	627.1	626.3	625.5	624.7	624.0	624.7	625.5	626.3
142.5°	656.8	656.5	656.2	655.7	654.9	654.1	653.3	652.6	653.3	654.1	654.9
145°	685.1	684.6	684.2	683.8	683.5	683.2	682.8	682.5	682.8	683.2	683.5
147.5°	712.3	711.8	711.4	710.8	710.2	709.6	709.0	708.3	709.0	709.6	710.2
150°	737.7	737.4	737.1	736.8	736.5	736.1	735.8	735.5	735.8	736.1	736.5
152.5°	760.3	760.2	760.0	759.7	759.2	758.8	758.3	757.8	758.3	758.8	759.2
155°	781.9	781.8	781.6	781.5	781.5	781.5	781.5	781.5	781.5	781.5	781.5
157.5°	801.4	801.3	801.1	801.1	801.3	801.4	801.6	801.8	801.6	801.4	801.3
160°	819.2	819.2	819.2	819.3	819.6	820.0	820.3	820.6	820.3	820.0	819.6
162.5°	835.6	835.5	835.3	835.5	835.9	836.4	836.8	837.3	836.8	836.4	835.9
165°	849.2	849.2	849.2	849.4	849.9	850.3	850.8	851.3	850.8	850.3	849.9
167.5°	860.7	860.5	860.4	860.6	861.2	861.9	862.5	863.1	862.5	861.9	861.2
170°	870.1	870.1	870.1	870.4	871.0	871.6	872.2	872.9	872.2	871.6	871.0
172.5°	877.7	877.7	877.7	878.1	878.7	879.3	879.9	880.5	879.9	879.3	878.7
175°	882.6	882.6	882.6	882.9	883.6	884.2	884.8	885.4	884.8	884.2	883.6
177.5°	885.4	885.4	885.4	885.7	886.3	887.0	887.6	888.2	887.6	887.0	886.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P831715

CATALOG NUMBER: S123DIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	1888.0	1870.2	1852.4	1838.7	1825.0	1801.7	1778.4	1773.0	1767.5	1759.7	1752.0
5°	1790.3	1746.5	1702.7	1663.4	1624.2	1593.6	1563.0	1542.9	1522.8	1508.2	1493.6
7.5°	1676.2	1610.5	1544.7	1498.2	1451.6	1407.3	1363.0	1348.9	1334.7	1315.6	1296.4
10°	1565.7	1493.1	1420.6	1359.9	1299.1	1255.8	1212.4	1195.1	1177.7	1153.5	1129.3
12.5°	1467.1	1387.7	1308.3	1247.1	1185.9	1143.9	1101.9	1076.8	1051.7	1038.0	1024.3
15°	1364.0	1279.1	1194.2	1137.5	1080.9	1043.1	1005.2	983.3	961.3	948.1	934.9
17.5°	1272.7	1188.7	1104.7	1050.4	996.0	961.3	926.7	907.5	888.3	878.3	868.2
20°	1185.9	1103.8	1021.6	968.7	915.7	887.4	859.1	846.8	834.4	826.2	818.0
22.5°	1106.5	1025.7	944.9	899.7	854.5	831.7	808.9	800.2	791.5	784.7	777.8
25°	1027.1	955.0	882.8	844.5	806.1	787.4	768.7	760.0	751.4	744.5	737.7
27.5°	962.3	893.3	824.4	791.5	758.7	744.1	729.5	722.6	715.8	709.4	703.0
30°	899.3	837.6	776.0	747.7	719.4	706.2	692.9	686.1	679.2	673.3	667.4
32.5°	840.8	787.9	734.9	708.9	682.9	671.9	661.0	652.8	644.5	640.0	635.4
35°	785.1	737.7	690.2	668.7	647.3	636.3	625.4	618.5	611.7	608.0	604.4
37.5°	737.7	695.2	652.8	632.2	611.7	601.2	590.7	584.8	578.8	577.4	576.1
40°	689.3	652.8	616.2	596.2	576.1	566.9	557.8	554.2	550.5	549.6	548.7
42.5°	649.1	613.5	577.9	559.6	541.4	533.6	525.9	524.0	522.2	523.6	525.0
45°	602.6	572.9	543.2	526.3	509.4	503.0	496.7	495.3	493.9	496.7	499.4
47.5°	563.3	535.9	508.5	492.5	476.6	472.0	467.4	467.0	466.5	470.2	473.8
50°	523.1	496.7	470.2	457.4	444.6	440.5	436.4	437.8	439.1	445.1	451.0
52.5°	485.7	461.0	436.4	424.5	412.7	409.9	407.2	410.4	413.6	420.0	426.4
55°	444.6	422.2	399.9	390.7	381.6	378.9	376.1	382.5	388.9	394.9	400.8
57.5°	405.4	385.7	366.1	357.9	349.7	349.2	348.8	354.7	360.6	367.0	373.4
60°	363.4	346.9	330.5	324.1	317.7	318.6	319.5	326.4	333.2	338.3	343.3
62.5°	325.0	311.3	297.6	291.7	285.8	288.0	290.3	297.2	304.0	309.9	315.9
65°	286.7	275.3	263.8	259.7	255.6	258.8	262.0	268.0	273.9	278.0	282.1
67.5°	250.2	240.6	231.0	227.8	224.6	227.8	231.0	236.9	242.8	247.0	251.1
70°	211.8	204.0	196.3	194.0	191.7	195.4	199.0	204.0	209.1	213.2	217.3
72.5°	176.2	170.3	164.3	163.9	163.4	166.6	169.8	174.8	179.9	182.6	185.3
75°	141.5	138.3	135.1	134.7	134.2	137.4	140.6	143.3	146.1	148.4	150.6
77.5°	110.5	107.7	105.0	105.4	105.9	108.2	110.5	113.2	115.9	117.3	118.7
80°	78.5	77.6	76.7	77.6	78.5	80.3	82.2	84.0	85.8	86.7	87.6
82.5°	53.9	53.0	52.0	53.4	54.8	56.1	57.5	58.9	60.3	60.7	61.2
85°	31.0	32.4	33.8	33.8	33.8	34.2	34.7	35.1	35.6	35.1	34.7
87.5°	14.6	15.1	15.5	15.5	15.5	16.0	16.4	16.4	16.4	16.0	15.5
90°	6.9	8.7	10.7	12.7	14.7	16.7	17.4	18.0	18.6	19.2	19.7
92.5°	24.6	25.6	26.5	27.4	28.4	29.3	29.7	30.2	30.7	31.1	31.2
95°	45.5	46.6	47.9	49.1	50.4	51.6	52.2	52.8	53.5	54.1	54.4
97.5°	70.7	71.6	72.5	73.4	74.4	75.3	76.1	76.8	77.6	78.4	78.7
100°	98.5	99.4	100.2	100.9	101.7	102.5	102.9	103.4	103.9	104.3	104.7
102.5°	128.0	128.8	129.9	131.0	132.1	133.2	133.6	134.1	134.6	135.0	135.2
105°	158.1	159.0	160.4	161.7	163.1	164.5	164.5	164.5	164.5	164.5	164.7
107.5°	193.7	194.1	194.7	195.4	196.0	196.6	197.1	197.5	198.0	198.5	198.6
110°	227.8	228.1	228.4	228.8	229.1	229.4	230.0	230.6	231.2	231.9	232.0



TEST NUMBER: P831715

CATALOG NUMBER: S123DIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	262.1	262.1	262.1	262.1	262.1	262.1	262.9	263.7	264.5	265.2	265.6
115°	298.2	298.2	297.9	297.6	297.3	297.0	297.2	297.3	297.5	297.6	297.6
117.5°	332.5	332.4	332.1	331.8	331.5	331.2	331.2	331.2	331.2	331.2	330.9
120°	368.3	368.4	367.6	366.9	366.1	365.3	365.2	365.0	364.9	364.7	364.5
122.5°	401.3	401.4	401.1	400.8	400.5	400.2	399.7	399.3	398.8	398.3	397.9
125°	435.5	435.6	435.3	435.0	434.7	434.3	433.7	433.1	432.5	431.9	431.2
127.5°	469.4	469.7	469.4	469.1	468.8	468.5	467.6	466.6	465.7	464.8	464.0
130°	502.7	503.1	502.7	502.2	501.7	501.3	500.7	500.0	499.4	498.8	497.9
132.5°	534.8	535.3	535.0	534.7	534.3	534.0	533.3	532.5	531.7	530.9	530.2
135°	566.3	566.7	566.6	566.4	566.3	566.1	565.5	564.9	564.2	563.6	563.2
137.5°	595.7	596.3	596.8	597.2	597.7	598.2	597.4	596.6	595.9	595.1	594.5
140°	627.1	627.5	627.7	627.8	628.0	628.2	628.0	627.8	627.7	627.5	626.9
142.5°	655.7	656.2	656.5	656.8	657.1	657.4	657.3	657.1	657.0	656.8	656.4
145°	683.8	684.2	684.6	685.1	685.6	686.0	685.9	685.7	685.6	685.4	685.0
147.5°	710.8	711.4	711.8	712.3	712.7	713.2	713.2	713.2	713.2	713.2	712.7
150°	736.8	737.1	737.4	737.7	738.0	738.3	738.3	738.3	738.3	738.3	737.8
152.5°	759.7	760.0	760.2	760.3	760.5	760.6	760.9	761.2	761.5	761.9	761.6
155°	781.5	781.6	781.8	781.9	782.1	782.2	782.9	783.5	784.1	784.7	784.5
157.5°	801.1	801.1	801.3	801.4	801.6	801.8	802.4	803.0	803.6	804.2	804.1
160°	819.3	819.2	819.2	819.2	819.2	819.2	820.0	820.7	821.5	822.3	822.4
162.5°	835.5	835.3	835.5	835.6	835.8	835.9	836.7	837.5	838.2	839.0	838.9
165°	849.4	849.2	849.2	849.2	849.2	849.2	850.1	851.0	852.0	852.9	852.8
167.5°	860.6	860.4	860.5	860.7	860.9	861.0	861.9	862.9	863.8	864.7	864.7
170°	870.4	870.1	870.1	870.1	870.1	870.1	871.2	872.2	873.3	874.4	874.4
172.5°	878.1	877.7	877.7	877.7	877.7	877.7	878.7	879.6	880.5	881.5	881.4
175°	882.9	882.6	882.6	882.6	882.6	882.6	883.6	884.5	885.4	886.3	886.3
177.5°	885.7	885.4	885.4	885.4	885.4	885.4	886.3	887.3	888.2	889.1	889.1
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P831715

CATALOG NUMBER: S123DIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1967.4	1967.4	1967.4	1967.4
2.5°	1748.8	1745.6	1732.8	1720.0
5°	1482.6	1471.7	1468.0	1464.4
7.5°	1295.5	1294.6	1275.4	1256.2
10°	1130.7	1132.1	1114.7	1097.4
12.5°	1012.9	1001.5	1000.1	998.8
15°	924.4	913.9	912.0	910.2
17.5°	861.8	855.4	853.6	851.8
20°	814.4	810.7	807.5	804.3
22.5°	773.3	768.7	766.0	763.2
25°	733.6	729.5	728.5	727.6
27.5°	698.0	692.9	692.9	692.9
30°	664.2	661.0	659.6	658.2
32.5°	632.7	629.9	629.9	629.9
35°	603.0	601.6	599.8	598.0
37.5°	576.1	576.1	575.2	574.3
40°	550.1	551.4	551.4	551.4
42.5°	526.3	527.7	527.7	527.7
45°	501.7	504.0	504.9	505.8
47.5°	477.5	481.1	482.0	483.0
50°	453.7	456.5	456.9	457.4
52.5°	429.5	432.7	435.0	437.3
55°	404.0	407.2	408.5	409.9
57.5°	376.6	379.8	380.2	380.7
60°	346.5	349.7	350.6	351.5
62.5°	317.7	319.5	320.4	321.4
65°	284.8	287.6	289.4	291.2
67.5°	253.3	255.6	255.6	255.6
70°	218.2	219.1	220.5	221.8
72.5°	185.8	186.2	186.2	186.2
75°	151.6	152.5	152.9	153.4
77.5°	119.1	119.6	119.6	119.6
80°	87.2	86.7	86.7	86.7
82.5°	59.8	58.4	58.4	58.4
85°	34.2	33.8	34.2	34.7
87.5°	15.5	15.5	15.5	15.5
90°	20.0	20.3	20.6	20.9
92.5°	30.9	30.6	30.3	30.0
95°	54.4	54.4	54.4	54.4
97.5°	78.5	78.4	78.2	78.1
100°	105.0	105.4	105.7	106.0
102.5°	135.0	134.9	134.7	134.6
105°	165.0	165.3	165.6	165.9
107.5°	198.5	198.3	198.2	198.0
110°	231.7	231.4	231.1	230.8



TEST NUMBER: P831715

CATALOG NUMBER: S123DIP-S775D805U940-4F0-1E-UDD-G1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
112.5°	265.6	265.6	265.6	265.6
115°	297.5	297.3	297.2	297.0
117.5°	330.5	330.0	329.5	329.1
120°	364.2	363.8	363.5	363.2
122.5°	397.4	396.9	396.5	396.0
125°	430.6	430.0	429.4	428.8
127.5°	463.4	462.8	462.2	461.5
130°	496.9	495.8	494.7	493.6
132.5°	529.4	528.6	527.8	527.1
135°	562.9	562.5	562.2	561.9
137.5°	594.0	593.5	593.1	592.6
140°	625.8	624.7	623.7	622.6
142.5°	655.6	654.8	654.0	653.3
145°	684.4	683.8	683.2	682.5
147.5°	711.8	710.9	710.0	709.0
150°	736.9	736.0	735.1	734.1
152.5°	760.9	760.1	759.3	758.5
155°	783.4	782.3	781.2	780.1
157.5°	803.1	802.2	801.3	800.4
160°	821.7	821.1	820.5	819.9
162.5°	837.8	836.7	835.6	834.5
165°	851.7	850.6	849.5	848.5
167.5°	863.8	862.9	861.9	861.0
170°	873.3	872.2	871.2	870.1
172.5°	880.3	879.2	878.1	877.0
175°	885.2	884.1	883.0	881.9
177.5°	888.0	886.9	885.8	884.7
180°	887.5	887.5	887.5	887.5



TEST NUMBER: P831715

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**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	14.74	15.62	15.65	16.54	17.73	16.98	17.86	17.89	18.78	19.96
	3H	16.39	17.18	17.31	18.11	19.32	18.40	19.19	19.33	20.12	21.33
	4H	16.97	17.71	17.91	18.65	19.87	18.86	19.60	19.79	20.54	21.75
	6H	17.34	18.02	18.29	18.97	20.20	19.13	19.82	20.08	20.76	21.99
	8H	17.44	18.09	18.39	19.05	20.27	19.20	19.85	20.15	20.81	22.03
	12H	17.48	18.10	18.44	19.06	20.31	19.21	19.83	20.17	20.79	22.04
4H	2H	15.32	16.06	16.26	17.00	18.22	17.14	17.89	18.09	18.82	20.04
	3H	17.15	17.77	18.10	18.74	19.97	18.76	19.38	19.72	20.35	21.58
	4H	17.85	18.41	18.81	19.37	20.63	19.35	19.91	20.31	20.88	22.13
	6H	18.32	18.81	19.30	19.80	21.05	19.75	20.24	20.73	21.23	22.48
	8H	18.46	18.92	19.44	19.89	21.16	19.87	20.32	20.84	21.30	22.57
	12H	18.53	18.94	19.52	19.93	21.21	19.91	20.32	20.91	21.32	22.59
8H	4H	18.12	18.57	19.09	19.55	20.82	19.46	19.91	20.43	20.89	22.16
	6H	18.71	19.08	19.71	20.10	21.37	19.96	20.33	20.96	21.35	22.62
	8H	18.91	19.24	19.92	20.25	21.54	20.14	20.47	21.15	21.48	22.76
	12H	19.04	19.33	20.05	20.33	21.66	20.24	20.53	21.25	21.53	22.87
12H	4H	18.12	18.53	19.11	19.52	20.80	19.43	19.84	20.43	20.84	22.11
	6H	18.76	19.09	19.76	20.10	21.38	19.97	20.30	20.98	21.31	22.60
	8H	18.99	19.28	20.00	20.28	21.61	20.17	20.46	21.19	21.47	22.80