

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: P831757

Luminaire Tested: S123DP-S775D835-4F0-1E-UDD-G

Issue Date: 05/03/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P831757  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1, -)  
Test Lab: INNOVATION CENTER  
Issue Date: 05/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123DP-S775D835-4F0-1E-UDD-G  
Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -  
Ballast/Driver: -

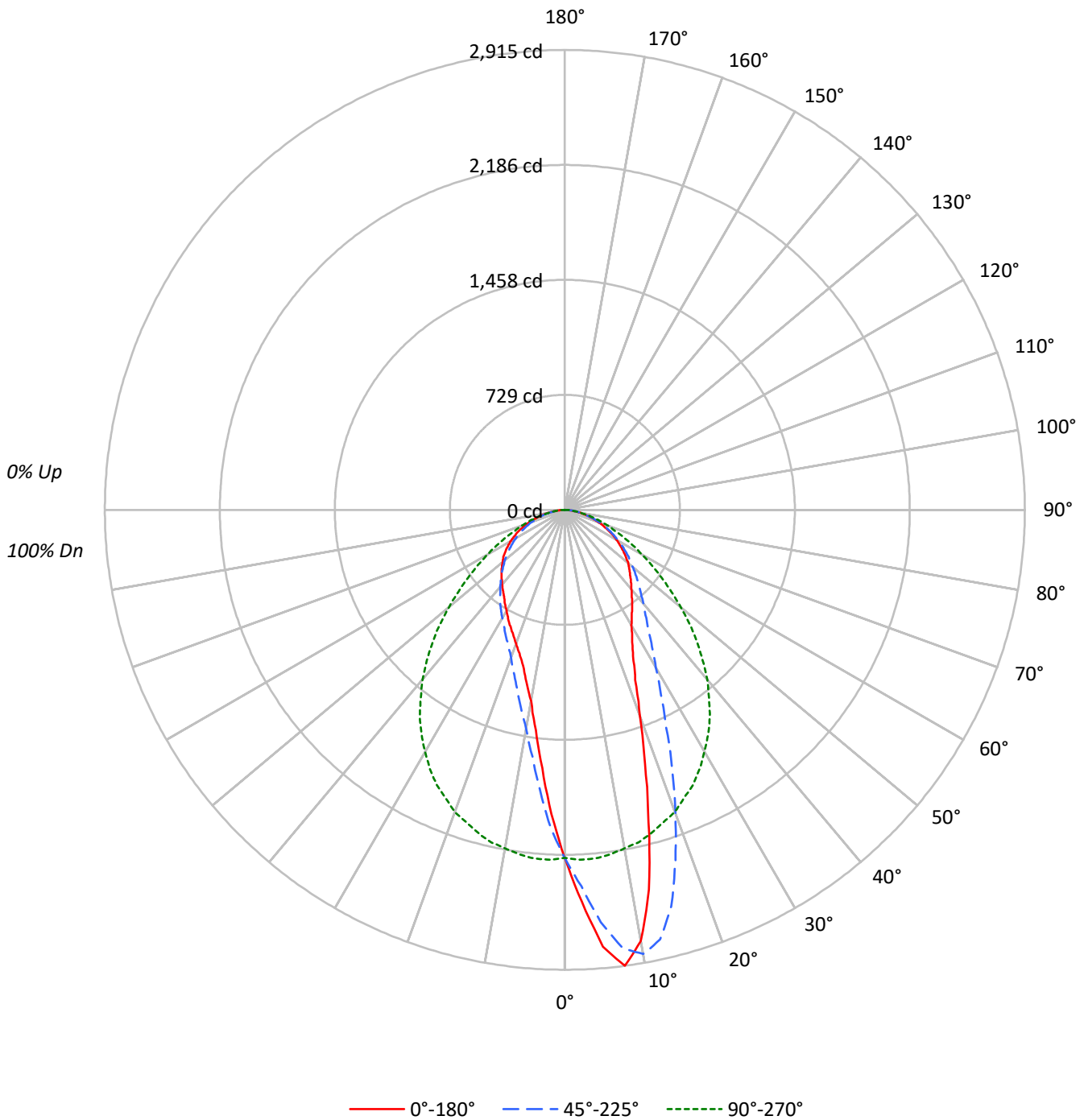
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3546.8 lumens  
Efficiency: N/A  
Efficacy: 136.9 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: Direct

Input Watts (W): 25.9  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88				86	
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76				74	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66				64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58				56	
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52				50	
6	74	62	54	48	73	61	53	48	60	53	47	58	52	47	56	51	47				45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42				40	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39				37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35				34	
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33				31	

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

	0°	45°	90°	135°	180°
0°	23750	23750	23750	23750	23750
5°	30035	28348	23961	19310	17744
10°	30326	31243	23802	15393	13450
15°	22841	29008	23640	13035	11375
20°	15914	23473	23338	11400	10332
25°	12136	18051	22823	10488	9691
30°	10499	14342	22002	9843	9175
35°	9741	12107	21055	9377	8812
40°	9222	10862	19724	8934	8689
45°	8914	10053	18033	8587	8634
50°	8761	9413	16031	8272	8589
55°	8435	8944	14063	7974	8627
60°	8133	8441	12122	7692	8486
65°	7641	7967	10458	7394	8318
70°	7056	7361	8894	6895	7830
75°	6388	6600	7623	6409	7153
80°	5269	5777	6031	5585	6031
85°	4174	4681	4421	4742	4804

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 80°  
 Vertical Angle: 45°  
 Luminance: 20588 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.6	5.9
10°-20°	518.9	14.6
20°-30°	614.4	17.3
30°-40°	617.8	17.4
40°-50°	566.8	16.0
50°-60°	467.8	13.2
60°-70°	330.9	9.3
70°-80°	176.7	5.0
80°-90°	44.8	1.3
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°	1341.9	37.8
0°-40°	1959.7	55.3
0°-60°	2994.4	84.4
0°-90°	3546.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2206	2206	2206	2206	2206	
5°	2780	2624	2218	1787	1642	265
15°	2050	2603	2121	1170	1021	566
25°	1022	1520	1922	883	816	482
35°	741	921	1602	714	671	466
45°	586	660	1185	564	567	454
55°	450	477	749	425	460	402
65°	300	313	411	290	327	298
75°	154	159	183	154	172	161
85°	34	38	36	38	39	40
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°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2.5°	2486.9	2484.3	2481.8	2469.0	2456.2	2450.0	2443.9	2425.5	2407.0	2386.5	2366.1
5°	2779.7	2786.9	2794.0	2785.8	2777.7	2752.6	2727.5	2694.2	2660.9	2623.6	2586.2
7.5°	2914.8	2918.9	2923.0	2917.9	2912.8	2906.1	2899.5	2869.8	2840.1	2801.7	2763.3
10°	2774.6	2783.8	2793.0	2813.0	2832.9	2855.5	2878.0	2873.9	2869.8	2858.5	2847.3
12.5°	2466.4	2477.7	2488.9	2528.9	2568.8	2620.0	2671.2	2715.2	2759.2	2789.9	2820.7
15°	2049.7	2080.9	2112.2	2148.5	2184.9	2260.1	2335.4	2428.0	2520.7	2603.1	2685.5
17.5°	1688.3	1700.1	1711.8	1750.7	1789.7	1884.4	1979.1	2086.1	2193.0	2329.7	2466.4
20°	1389.3	1400.1	1410.8	1462.0	1513.2	1587.4	1661.7	1782.0	1902.3	2049.2	2196.1
22.5°	1167.2	1184.1	1201.0	1229.6	1258.3	1329.4	1400.6	1507.6	1614.6	1776.9	1939.1
25°	1021.8	1034.1	1046.4	1063.8	1081.2	1138.0	1194.8	1282.9	1370.9	1519.9	1668.8
27.5°	922.5	927.6	932.7	950.1	967.5	1004.4	1041.2	1117.0	1192.8	1319.2	1445.6
30°	844.7	848.2	851.8	867.2	882.5	907.6	932.7	987.5	1042.3	1153.9	1265.5
32.5°	790.4	793.0	795.5	807.3	819.1	837.0	854.9	894.8	934.8	1026.9	1119.0
35°	741.3	742.8	744.3	753.0	761.7	775.0	788.3	818.6	848.8	921.4	994.1
37.5°	698.3	700.3	702.3	707.5	712.6	724.4	736.1	760.2	784.3	840.1	895.9
40°	656.3	659.9	663.4	667.0	670.6	680.3	690.1	708.5	726.9	773.0	819.1
42.5°	620.4	624.0	627.6	629.1	630.7	636.3	641.9	658.8	675.7	710.0	744.3
45°	585.6	587.2	588.7	590.2	591.8	596.4	601.0	615.8	630.7	660.4	690.1
47.5°	553.9	553.9	553.9	554.9	555.9	560.0	564.1	574.9	585.6	608.7	631.7
50°	523.2	523.2	523.2	521.6	520.1	522.7	525.2	533.4	541.6	562.1	582.6
52.5°	486.3	486.3	486.3	486.8	487.3	487.3	487.3	494.5	501.7	520.1	538.5
55°	449.5	451.5	453.6	452.0	450.5	451.5	452.5	457.1	461.7	476.6	491.4
57.5°	412.6	413.6	414.7	414.1	413.6	414.1	414.7	418.7	422.8	434.1	445.4
60°	377.8	377.8	377.8	376.8	375.7	376.8	377.8	379.8	381.9	392.1	402.4
62.5°	338.9	339.4	339.9	340.4	340.9	339.9	338.9	341.4	344.0	351.7	359.4
65°	300.0	300.5	301.0	302.5	304.1	303.1	302.0	304.6	307.1	312.8	318.4
67.5°	265.2	264.1	263.1	263.6	264.1	265.7	267.2	267.7	268.2	274.4	280.5
70°	224.2	225.2	226.3	225.8	225.2	225.8	226.3	227.8	229.3	233.9	238.6
72.5°	187.4	187.9	188.4	188.4	188.4	189.4	190.4	192.0	193.5	196.1	198.6
75°	153.6	153.6	153.6	154.6	155.6	156.1	156.6	156.6	156.6	158.7	160.7
77.5°	116.7	119.3	121.8	121.3	120.8	121.8	122.9	124.4	125.9	127.0	128.0
80°	85.0	85.0	85.0	85.5	86.0	87.5	89.1	90.1	91.1	93.2	95.2
82.5°	54.3	54.8	55.3	56.8	58.4	59.4	60.4	61.9	63.5	63.5	63.5
85°	33.8	32.8	31.7	32.8	33.8	34.8	35.8	36.3	36.9	37.9	38.9
87.5°	16.4	16.4	16.4	16.4	16.4	16.9	17.4	17.4	17.4	17.4	17.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2.5°	2359.9	2353.8	2331.3	2308.7	2283.1	2257.5	2238.6	2219.7	2191.5	2163.4	2140.3
5°	2557.5	2528.9	2481.3	2433.6	2369.1	2304.6	2261.1	2217.6	2159.3	2100.9	2054.3
7.5°	2714.2	2665.0	2598.5	2531.9	2447.5	2363.0	2283.1	2203.3	2114.2	2025.1	1952.4
10°	2814.0	2780.7	2703.9	2627.1	2514.0	2400.9	2289.3	2177.7	2063.0	1948.3	1852.1
12.5°	2823.7	2826.8	2756.1	2685.5	2557.5	2429.5	2293.9	2158.2	2013.9	1869.5	1757.4
15°	2738.2	2791.0	2752.1	2713.1	2584.1	2455.1	2288.3	2121.4	1955.0	1788.6	1659.1
17.5°	2579.5	2692.7	2698.3	2703.9	2574.9	2445.9	2261.1	2076.3	1887.9	1699.6	1563.4
20°	2363.0	2529.9	2587.2	2644.6	2539.6	2434.7	2236.0	2037.4	1826.5	1615.6	1472.8
22.5°	2141.9	2344.6	2449.5	2554.5	2476.6	2398.8	2187.4	1976.0	1753.3	1530.6	1385.8
25°	1890.0	2111.1	2272.4	2433.6	2386.0	2338.4	2130.1	1921.7	1684.7	1447.7	1299.8
27.5°	1670.4	1895.1	2089.6	2284.2	2273.9	2263.7	2056.9	1850.1	1607.4	1364.8	1221.9
30°	1474.8	1684.2	1901.8	2119.3	2144.4	2169.5	1969.8	1770.2	1527.0	1283.9	1146.2
32.5°	1301.8	1484.6	1718.0	1951.4	2000.6	2049.7	1869.5	1689.3	1448.7	1208.1	1075.5
35°	1160.0	1325.9	1559.3	1792.7	1854.2	1915.6	1758.9	1602.3	1367.8	1133.4	1006.9
37.5°	1034.6	1173.3	1401.1	1628.9	1704.2	1779.4	1639.2	1498.9	1279.3	1059.7	943.5
40°	930.7	1042.3	1251.6	1461.0	1548.0	1635.1	1519.4	1403.7	1195.3	987.0	880.0
42.5°	843.6	942.9	1132.9	1322.8	1406.2	1489.7	1391.9	1294.1	1108.8	923.5	825.7
45°	769.4	848.8	1021.3	1193.8	1273.1	1352.5	1268.5	1184.6	1021.3	858.0	766.8
47.5°	699.8	767.9	915.3	1062.7	1133.4	1204.0	1138.5	1073.0	934.8	796.5	714.1
50°	637.3	692.1	821.1	950.1	1011.5	1073.0	1015.1	957.3	843.6	730.0	658.3
52.5°	583.1	627.6	735.6	843.6	896.4	949.1	899.4	849.8	759.7	669.6	607.1
55°	529.3	567.2	660.9	754.6	790.4	826.2	787.8	749.4	676.8	604.1	551.3
57.5°	479.2	512.9	589.7	666.5	694.2	721.8	687.0	652.2	597.4	542.6	498.6
60°	430.0	457.7	521.6	585.6	602.5	619.4	591.3	563.1	524.7	486.3	446.9
62.5°	384.4	409.5	457.1	504.7	516.0	527.3	505.8	484.3	455.1	425.9	395.2
65°	337.4	356.3	395.2	434.1	441.3	448.4	429.5	410.6	388.5	366.5	344.0
67.5°	293.8	307.1	338.9	370.6	371.1	371.7	356.3	340.9	328.6	316.4	298.4
70°	251.4	264.1	285.1	306.1	306.6	307.1	294.9	282.6	273.4	264.1	250.8
72.5°	207.8	217.1	232.9	248.8	247.8	246.7	239.1	231.4	224.2	217.1	207.3
75°	168.4	176.1	186.8	197.6	194.5	191.5	187.4	183.3	177.1	171.0	164.8
77.5°	132.6	137.2	143.3	149.5	147.4	145.4	141.8	138.2	133.6	129.0	126.4
80°	97.3	99.3	103.4	107.5	106.5	105.5	101.4	97.3	96.2	95.2	91.6
82.5°	66.0	68.6	69.6	70.6	70.1	69.6	66.5	63.5	62.5	61.4	60.9
85°	39.4	39.9	40.4	41.0	39.4	37.9	36.9	35.8	35.8	35.8	35.3
87.5°	17.9	18.4	18.4	18.4	17.9	17.4	16.4	15.4	15.9	16.4	16.4
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°	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4	2206.4
2.5°	2117.3	2097.3	2077.4	2062.0	2046.6	2020.5	1994.4	1988.3	1982.1	1973.4	1964.7
5°	2007.7	1958.6	1909.4	1865.4	1821.4	1787.1	1752.8	1730.3	1707.7	1691.4	1675.0
7.5°	1879.8	1806.0	1732.3	1680.1	1627.9	1578.2	1528.6	1512.7	1496.8	1475.3	1453.8
10°	1755.9	1674.5	1593.1	1525.0	1456.9	1408.3	1359.6	1340.2	1320.7	1293.6	1266.5
12.5°	1645.3	1556.2	1467.1	1398.6	1330.0	1282.9	1235.8	1207.6	1179.5	1164.1	1148.7
15°	1529.6	1434.4	1339.2	1275.7	1212.2	1169.7	1127.2	1102.7	1078.1	1063.2	1048.4
17.5°	1427.2	1333.0	1238.8	1177.9	1117.0	1078.1	1039.2	1017.7	996.2	984.9	973.7
20°	1330.0	1237.8	1145.7	1086.3	1026.9	995.2	963.4	949.6	935.8	926.6	917.4
22.5°	1240.9	1150.3	1059.7	1009.0	958.3	932.7	907.1	897.4	887.7	880.0	872.3
25°	1151.8	1070.9	990.0	947.0	904.0	883.1	862.1	852.3	842.6	834.9	827.3
27.5°	1079.1	1001.8	924.5	887.7	850.8	834.4	818.0	810.4	802.7	795.5	788.3
30°	1008.5	939.4	870.3	838.5	806.8	791.9	777.1	769.4	761.7	755.1	748.4
32.5°	942.9	883.6	824.2	795.0	765.8	753.5	741.3	732.0	722.8	717.7	712.6
35°	880.5	827.3	774.0	750.0	725.9	713.6	701.3	693.6	686.0	681.9	677.8
37.5°	827.3	779.6	732.0	709.0	686.0	674.2	662.4	655.8	649.1	647.6	646.0
40°	773.0	732.0	691.1	668.6	646.0	635.8	625.6	621.5	617.4	616.3	615.3
42.5°	727.9	688.0	648.1	627.6	607.1	598.4	589.7	587.7	585.6	587.2	588.7
45°	675.7	642.5	609.2	590.2	571.3	564.1	557.0	555.4	553.9	557.0	560.0
47.5°	631.7	601.0	570.3	552.4	534.4	529.3	524.2	523.7	523.2	527.3	531.4
50°	586.7	557.0	527.3	512.9	498.6	494.0	489.4	490.9	492.5	499.1	505.8
52.5°	544.7	517.0	489.4	476.1	462.8	459.7	456.6	460.2	463.8	471.0	478.1
55°	498.6	473.5	448.4	438.2	428.0	424.9	421.8	429.0	436.2	442.8	449.5
57.5°	454.6	432.6	410.6	401.3	392.1	391.6	391.1	397.8	404.4	411.6	418.7
60°	407.5	389.1	370.6	363.5	356.3	357.3	358.3	366.0	373.7	379.3	385.0
62.5°	364.5	349.1	333.8	327.1	320.5	323.0	325.6	333.3	340.9	347.6	354.2
65°	321.5	308.7	295.9	291.3	286.7	290.3	293.8	300.5	307.1	311.8	316.4
67.5°	280.5	269.8	259.0	255.4	251.9	255.4	259.0	265.7	272.3	276.9	281.6
70°	237.5	228.8	220.1	217.6	215.0	219.1	223.2	228.8	234.5	239.1	243.7
72.5°	197.6	190.9	184.3	183.8	183.3	186.8	190.4	196.1	201.7	204.8	207.8
75°	158.7	155.1	151.5	151.0	150.5	154.1	157.7	160.7	163.8	166.4	168.9
77.5°	123.9	120.8	117.7	118.3	118.8	121.3	123.9	127.0	130.0	131.6	133.1
80°	88.0	87.0	86.0	87.0	88.0	90.1	92.1	94.2	96.2	97.3	98.3
82.5°	60.4	59.4	58.4	59.9	61.4	63.0	64.5	66.0	67.6	68.1	68.6
85°	34.8	36.3	37.9	37.9	37.9	38.4	38.9	39.4	39.9	39.4	38.9
87.5°	16.4	16.9	17.4	17.4	17.4	17.9	18.4	18.4	18.4	17.9	17.4
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: P831757

CATALOG NUMBER: S123DP-S775D835-4F0-1E-UDD-G

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2206.4	2206.4	2206.4	2206.4
2.5°	1961.1	1957.6	1943.2	1928.9
5°	1662.7	1650.4	1646.3	1642.2
7.5°	1452.8	1451.8	1430.3	1408.8
10°	1268.0	1269.5	1250.1	1230.6
12.5°	1135.9	1123.1	1121.6	1120.1
15°	1036.6	1024.9	1022.8	1020.8
17.5°	966.5	959.3	957.3	955.2
20°	913.3	909.2	905.6	902.0
22.5°	867.2	862.1	859.0	855.9
25°	822.6	818.0	817.0	816.0
27.5°	782.7	777.1	777.1	777.1
30°	744.8	741.3	739.7	738.2
32.5°	709.5	706.4	706.4	706.4
35°	676.2	674.7	672.7	670.6
37.5°	646.0	646.0	645.0	644.0
40°	616.9	618.4	618.4	618.4
42.5°	590.2	591.8	591.8	591.8
45°	562.6	565.2	566.2	567.2
47.5°	535.5	539.6	540.6	541.6
50°	508.8	511.9	512.4	512.9
52.5°	481.7	485.3	487.9	490.4
55°	453.0	456.6	458.2	459.7
57.5°	422.3	425.9	426.4	426.9
60°	388.5	392.1	393.2	394.2
62.5°	356.3	358.3	359.4	360.4
65°	319.4	322.5	324.6	326.6
67.5°	284.1	286.7	286.7	286.7
70°	244.7	245.7	247.3	248.8
72.5°	208.3	208.9	208.9	208.9
75°	170.0	171.0	171.5	172.0
77.5°	133.6	134.1	134.1	134.1
80°	97.8	97.3	97.3	97.3
82.5°	67.1	65.5	65.5	65.5
85°	38.4	37.9	38.4	38.9
87.5°	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P831757

CATALOG NUMBER: S123DP-S775D835-4F0-1E-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	18.49	19.99	18.85	20.31	20.62	20.72	22.23	21.09	22.54	22.86
	3H	20.18	21.53	20.55	21.86	22.22	22.19	23.55	22.57	23.87	24.24
	4H	20.78	22.05	21.18	22.40	22.78	22.67	23.94	23.07	24.29	24.67
	6H	21.18	22.36	21.59	22.72	23.12	22.97	24.15	23.39	24.52	24.91
	8H	21.30	22.42	21.72	22.81	23.21	23.05	24.17	23.48	24.56	24.96
	12H	21.36	22.43	21.79	22.81	23.24	23.09	24.16	23.52	24.55	24.98
4H	2H	19.13	20.40	19.53	20.75	21.13	20.96	22.23	21.36	22.58	22.96
	3H	21.01	22.07	21.42	22.47	22.87	22.63	23.69	23.04	24.09	24.49
	4H	21.73	22.69	22.17	23.10	23.54	23.23	24.19	23.67	24.60	25.04
	6H	22.24	23.07	22.70	23.52	23.97	23.67	24.50	24.13	24.95	25.40
	8H	22.39	23.17	22.86	23.61	24.08	23.80	24.57	24.26	25.02	25.48
	12H	22.49	23.18	22.97	23.66	24.13	23.87	24.56	24.35	25.04	25.51
8H	4H	22.05	22.82	22.51	23.26	23.73	23.39	24.16	23.85	24.61	25.07
	6H	22.66	23.30	23.15	23.79	24.27	23.91	24.55	24.41	25.04	25.52
	8H	22.87	23.44	23.38	23.95	24.44	24.09	24.67	24.61	25.18	25.67
	12H	23.02	23.53	23.53	24.02	24.58	24.22	24.73	24.73	25.22	25.79
12H	4H	22.08	22.77	22.56	23.25	23.72	23.39	24.08	23.87	24.56	25.03
	6H	22.71	23.29	23.22	23.79	24.28	23.93	24.50	24.44	25.01	25.50
	8H	22.98	23.48	23.48	23.97	24.54	24.16	24.66	24.67	25.16	25.72