

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: P831160

Luminaire Tested: S123DIP-S1000D805U840-4F0-1E-UDD-G1

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P831160
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-S1000D805U840-4F0-1E-UDD-G1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: -

Summary

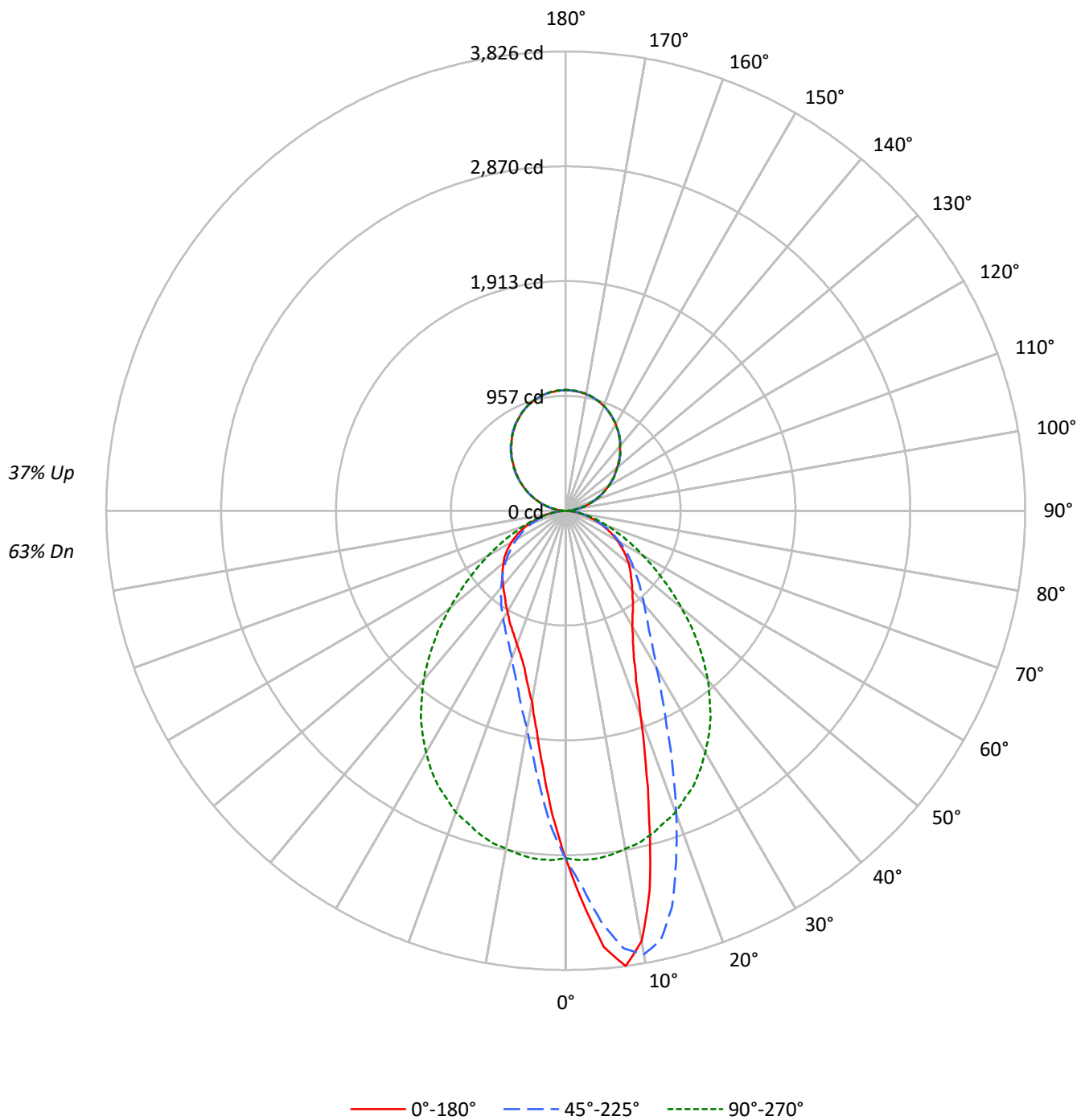
Lumens per Lamp: N/A
Luminaire Lumens: 7442.8 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.7
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

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

Luminous Intensity Polar Plot



TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50
3	85	76	69	63	80	72	65	60	63	59	55	56	52	49	49	46	44
4	78	68	60	54	73	64	57	52	57	52	47	50	46	43	44	41	38
5	72	61	53	47	68	58	51	45	52	46	42	46	41	38	40	37	34
6	67	55	47	42	63	52	45	40	47	41	37	42	37	34	37	33	31
7	62	50	43	37	59	48	41	36	43	37	33	38	34	30	34	30	28
8	58	46	39	33	55	44	37	32	40	34	30	36	31	27	32	28	25
9	54	42	35	30	51	40	34	29	37	31	27	33	28	25	30	26	23
10	51	39	32	27	48	37	31	27	34	29	25	31	26	23	28	24	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31174	31174	31174	31174	31174
5°	39425	37211	31453	25348	23292
10°	39808	41013	31244	20205	17656
15°	29983	38078	31032	17111	14931
20°	20890	30812	30636	14963	13562
25°	15930	23695	29960	13767	12721
30°	13781	18825	28881	12920	12044
35°	12786	15895	27638	12309	11567
40°	12105	14258	25891	11727	11405
45°	11702	13195	23669	11272	11333
50°	11501	12355	21043	10860	11275
55°	11072	11740	18462	10466	11324
60°	10676	11080	15913	10097	11138
65°	10030	10458	13726	9704	10919
70°	9262	9665	11673	9051	10279
75°	8384	8663	10006	8413	9391
80°	6912	7581	7916	7333	7916
85°	5483	6138	5805	6225	6311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°

Vertical Angle: 45°

Luminance: 27026 cd/sqm

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	3.7
10°-20°	681.2	9.2
20°-30°	806.5	10.8
30°-40°	811.0	10.9
40°-50°	744.0	10.0
50°-60°	614.1	8.3
60°-70°	434.4	5.8
70°-80°	231.9	3.1
80°-90°	61.0	0.8
90°-100°	64.7	0.9
100°-110°	195.8	2.6
110°-120°	333.4	4.5
120°-130°	438.6	5.9
130°-140°	493.0	6.6
140°-150°	484.7	6.5
150°-160°	408.0	5.5
160°-170°	271.6	3.6
170°-180°	95.1	1.3
0°-30°	1761.5	23.7
0°-40°	2572.5	34.6
0°-60°	3930.6	52.8
0°-90°	4657.8	62.6
90°-120°	593.9	8.0
90°-150°	2010.1	27.0
90°-180°	2785.0	37.4
0°-180°	7442.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2896	2896	2896	2896	2896	
5°	3649	3444	2911	2346	2156	348
15°	2691	3417	2785	1536	1340	743
25°	1341	1995	2523	1159	1071	633
35°	973	1210	2103	937	880	611
45°	769	867	1555	740	744	595
55°	590	626	984	558	603	528
65°	394	411	539	381	429	391
75°	202	208	241	202	226	212
85°	44	50	47	50	51	50
90°	24	19	1	19	24	14
95°	62	58	47	58	62	62
105°	188	186	178	186	188	199
115°	336	336	336	336	336	333
125°	486	492	491	492	486	434
135°	636	641	637	641	636	490
145°	773	777	773	777	773	483
155°	884	886	885	886	884	407
165°	961	962	964	962	961	271
175°	999	1000	1003	1000	999	95
180°	1005	1005	1005	1005	1005	

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2
2.5°	3264.4	3261.1	3257.7	3240.9	3224.1	3216.1	3208.0	3183.8	3159.6	3132.7	3105.9
5°	3648.8	3658.2	3667.6	3656.9	3646.1	3613.2	3580.3	3536.6	3492.9	3443.9	3394.8
7.5°	3826.2	3831.6	3837.0	3830.2	3823.5	3814.8	3806.1	3767.1	3728.1	3677.7	3627.3
10°	3642.1	3654.2	3666.3	3692.5	3718.7	3748.3	3777.8	3772.5	3767.1	3752.3	3737.5
12.5°	3237.6	3252.4	3267.1	3319.5	3372.0	3439.2	3506.4	3564.1	3621.9	3662.3	3702.6
15°	2690.6	2731.6	2772.6	2820.3	2868.0	2966.8	3065.5	3187.2	3308.8	3417.0	3525.2
17.5°	2216.2	2231.6	2247.1	2298.1	2349.2	2473.5	2597.8	2738.3	2878.7	3058.2	3237.6
20°	1823.7	1837.8	1852.0	1919.2	1986.4	2083.8	2181.2	2339.1	2497.1	2689.9	2882.8
22.5°	1532.1	1554.3	1576.4	1614.1	1651.7	1745.1	1838.5	1979.0	2119.4	2332.4	2545.4
25°	1341.3	1357.4	1373.5	1396.4	1419.2	1493.8	1568.4	1684.0	1799.5	1995.1	2190.6
27.5°	1210.9	1217.6	1224.3	1247.2	1270.0	1318.4	1366.8	1466.2	1565.7	1731.7	1897.7
30°	1108.8	1113.5	1118.2	1138.3	1158.5	1191.4	1224.3	1296.2	1368.1	1514.6	1661.1
32.5°	1037.5	1040.9	1044.2	1059.7	1075.2	1098.7	1122.2	1174.6	1227.0	1348.0	1468.9
35°	973.0	975.0	977.0	988.5	999.9	1017.4	1034.8	1074.5	1114.1	1209.6	1305.0
37.5°	916.6	919.3	921.9	928.7	935.4	950.8	966.3	997.9	1029.5	1102.7	1176.0
40°	861.5	866.2	870.9	875.6	880.3	893.1	905.8	930.0	954.2	1014.7	1075.2
42.5°	814.4	819.1	823.8	825.9	827.9	835.3	842.7	864.8	887.0	932.0	977.0
45°	768.7	770.8	772.8	774.8	776.8	782.8	788.9	808.4	827.9	866.8	905.8
47.5°	727.1	727.1	727.1	728.4	729.8	735.1	740.5	754.6	768.7	799.0	829.2
50°	686.8	686.8	686.8	684.7	682.7	686.1	689.4	700.2	710.9	737.8	764.7
52.5°	638.4	638.4	638.4	639.0	639.7	639.7	639.7	649.1	658.5	682.7	706.9
55°	590.0	592.7	595.4	593.4	591.3	592.7	594.0	600.1	606.1	625.6	645.1
57.5°	541.6	543.0	544.3	543.6	543.0	543.6	544.3	549.7	555.0	569.8	584.6
60°	495.9	495.9	495.9	494.6	493.2	494.6	495.9	498.6	501.3	514.7	528.2
62.5°	444.8	445.5	446.2	446.9	447.5	446.2	444.8	448.2	451.6	461.6	471.7
65°	393.8	394.4	395.1	397.1	399.2	397.8	396.5	399.8	403.2	410.6	418.0
67.5°	348.1	346.7	345.4	346.1	346.7	348.8	350.8	351.4	352.1	360.2	368.2
70°	294.3	295.7	297.0	296.3	295.7	296.3	297.0	299.0	301.0	307.1	313.1
72.5°	245.9	246.6	247.3	247.3	247.3	248.6	250.0	252.0	254.0	257.4	260.7
75°	201.6	201.6	201.6	202.9	204.3	205.0	205.6	205.6	205.6	208.3	211.0
77.5°	153.2	156.6	159.9	159.3	158.6	159.9	161.3	163.3	165.3	166.6	168.0
80°	111.5	111.5	111.5	112.2	112.9	114.9	116.9	118.3	119.6	122.3	125.0
82.5°	71.2	71.9	72.6	74.6	76.6	77.9	79.3	81.3	83.3	83.3	83.3
85°	44.4	43.0	41.7	43.0	44.4	45.7	47.0	47.7	48.4	49.7	51.1
87.5°	21.5	21.5	21.5	21.5	21.5	22.2	22.8	22.8	22.8	22.8	22.8
90°	23.7	23.3	23.0	22.6	22.3	21.8	21.1	20.4	19.7	18.9	16.7
92.5°	34.0	34.3	34.7	35.0	35.4	35.3	34.7	34.2	33.7	33.2	32.1
95°	61.6	61.6	61.6	61.6	61.6	61.2	60.5	59.8	59.1	58.4	57.0
97.5°	88.4	88.6	88.8	89.0	89.1	88.8	87.9	87.0	86.1	85.3	84.2
100°	120.0	119.7	119.3	119.0	118.6	118.2	117.6	117.1	116.6	116.1	115.2
102.5°	152.4	152.6	152.7	152.9	153.1	152.9	152.4	151.9	151.3	150.8	149.6
105°	187.9	187.6	187.2	186.9	186.5	186.3	186.3	186.3	186.3	186.3	184.8
107.5°	224.2	224.4	224.6	224.8	224.9	224.8	224.2	223.7	223.2	222.7	222.0
110°	261.3	261.7	262.0	262.4	262.7	262.6	261.9	261.2	260.5	259.8	259.4

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.8	300.8	300.8	300.8	300.8	300.4	299.5	298.6	297.8	296.9	296.9
115°	336.4	336.5	336.7	336.9	337.1	337.1	336.9	336.7	336.5	336.4	336.7
117.5°	372.7	373.2	373.7	374.2	374.8	375.0	375.0	375.0	375.0	375.0	375.4
120°	411.4	411.7	412.1	412.4	412.8	413.0	413.2	413.4	413.6	413.7	414.6
122.5°	448.5	449.0	449.5	450.0	450.6	451.1	451.6	452.2	452.7	453.2	453.6
125°	485.6	486.3	487.0	487.7	488.4	489.1	489.8	490.5	491.2	491.9	492.2
127.5°	522.7	523.4	524.1	524.8	525.5	526.4	527.4	528.5	529.5	530.6	530.9
130°	559.0	560.2	561.5	562.7	563.9	564.9	565.6	566.3	567.0	567.7	568.2
132.5°	596.9	597.8	598.7	599.5	600.4	601.3	602.2	603.0	603.9	604.8	605.2
135°	636.4	636.7	637.1	637.4	637.8	638.3	639.0	639.7	640.4	641.1	641.3
137.5°	671.1	671.6	672.2	672.7	673.2	673.9	674.8	675.7	676.6	677.4	676.9
140°	705.1	706.3	707.5	708.8	710.0	710.7	710.9	711.0	711.2	711.4	711.2
142.5°	739.8	740.7	741.6	742.4	743.3	743.8	744.0	744.2	744.4	744.6	744.2
145°	773.0	773.7	774.4	775.1	775.8	776.2	776.4	776.6	776.7	776.9	776.4
147.5°	803.0	804.0	805.1	806.1	807.2	807.7	807.7	807.7	807.7	807.7	807.2
150°	831.4	832.5	833.5	834.6	835.6	836.1	836.1	836.1	836.1	836.1	835.8
152.5°	859.0	859.9	860.8	861.7	862.5	862.8	862.5	862.1	861.8	861.4	861.2
155°	883.5	884.7	886.0	887.2	888.4	888.7	888.0	887.3	886.6	885.9	885.7
157.5°	906.4	907.5	908.5	909.6	910.6	910.8	910.1	909.4	908.7	908.0	907.8
160°	928.5	929.2	929.9	930.6	931.3	931.2	930.4	929.5	928.6	927.7	927.7
162.5°	945.1	946.3	947.6	948.8	950.0	950.2	949.3	948.4	947.6	946.7	946.5
165°	960.9	962.1	963.3	964.6	965.8	965.9	964.8	963.8	962.7	961.7	961.7
167.5°	975.1	976.2	977.2	978.3	979.3	979.3	978.3	977.2	976.2	975.1	974.9
170°	985.4	986.6	987.8	989.1	990.3	990.3	989.1	987.8	986.6	985.4	985.4
172.5°	993.3	994.5	995.7	996.9	998.2	998.3	997.2	996.2	995.1	994.1	994.1
175°	998.8	1000.0	1001.2	1002.5	1003.7	1003.8	1002.7	1001.7	1000.6	999.6	999.6
177.5°	1001.9	1003.2	1004.4	1005.6	1006.9	1006.9	1005.9	1004.8	1003.8	1002.7	1002.7
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2
2.5°	3097.8	3089.7	3060.2	3030.6	2997.0	2963.4	2938.5	2913.7	2876.7	2839.8	2809.5
5°	3357.2	3319.5	3257.1	3194.6	3109.9	3025.2	2968.1	2911.0	2834.4	2757.8	2696.6
7.5°	3562.8	3498.3	3410.9	3323.6	3212.7	3101.8	2997.0	2892.2	2775.2	2658.3	2562.9
10°	3693.8	3650.2	3549.4	3448.6	3300.1	3151.6	3005.1	2858.6	2708.1	2557.5	2431.2
12.5°	3706.6	3710.6	3617.9	3525.2	3357.2	3189.2	3011.1	2833.0	2643.5	2454.0	2306.9
15°	3594.4	3663.6	3612.5	3561.5	3392.1	3222.8	3003.7	2784.7	2566.3	2347.9	2177.9
17.5°	3386.1	3534.6	3542.0	3549.4	3380.0	3210.7	2968.1	2725.5	2478.2	2231.0	2052.2
20°	3101.8	3320.9	3396.2	3471.4	3333.7	3195.9	2935.2	2674.5	2397.6	2120.7	1933.3
22.5°	2811.5	3077.6	3215.4	3353.1	3251.0	3148.9	2871.3	2593.8	2301.5	2009.2	1819.0
25°	2480.9	2771.2	2982.9	3194.6	3132.1	3069.6	2796.1	2522.6	2211.5	1900.3	1706.1
27.5°	2192.6	2487.6	2743.0	2998.3	2984.9	2971.5	2700.0	2428.5	2110.0	1791.5	1604.0
30°	1936.0	2210.8	2496.4	2782.0	2814.9	2847.8	2585.8	2323.7	2004.5	1685.3	1504.5
32.5°	1708.8	1948.7	2255.1	2561.6	2626.1	2690.6	2454.0	2217.5	1901.7	1585.9	1411.8
35°	1522.7	1740.4	2046.8	2353.3	2433.9	2514.5	2308.9	2103.3	1795.5	1487.7	1321.8
37.5°	1358.1	1540.2	1839.2	2138.2	2237.0	2335.8	2151.7	1967.5	1679.3	1391.0	1238.4
40°	1221.6	1368.1	1643.0	1917.8	2032.0	2146.3	1994.4	1842.6	1569.1	1295.6	1155.1
42.5°	1107.4	1237.8	1487.1	1736.4	1845.9	1955.4	1827.1	1698.7	1455.5	1212.2	1083.9
45°	1010.0	1114.1	1340.6	1567.0	1671.2	1775.4	1665.1	1554.9	1340.6	1126.2	1006.6
47.5°	918.6	1008.0	1201.5	1395.0	1487.7	1580.5	1494.5	1408.5	1227.0	1045.6	937.4
50°	836.6	908.5	1077.8	1247.2	1327.8	1408.5	1332.5	1256.6	1107.4	958.2	864.2
52.5°	765.4	823.8	965.6	1107.4	1176.6	1245.8	1180.7	1115.5	997.2	878.9	797.0
55°	694.8	744.5	867.5	990.5	1037.5	1084.6	1034.2	983.8	888.3	792.9	723.7
57.5°	629.0	673.3	774.1	874.9	911.2	947.5	901.8	856.1	784.2	712.3	654.5
60°	564.5	600.7	684.7	768.7	790.9	813.1	776.1	739.2	688.8	638.4	586.6
62.5°	504.7	537.6	600.1	662.6	677.3	692.1	663.9	635.7	597.4	559.1	518.8
65°	442.8	467.7	518.8	569.8	579.2	588.6	563.8	538.9	510.0	481.1	451.6
67.5°	385.7	403.2	444.8	486.5	487.2	487.9	467.7	447.5	431.4	415.3	391.8
70°	329.9	346.7	374.3	401.8	402.5	403.2	387.1	370.9	358.8	346.7	329.3
72.5°	272.8	284.9	305.7	326.6	325.2	323.9	313.8	303.7	294.3	284.9	272.1
75°	221.1	231.2	245.3	259.4	255.3	251.3	245.9	240.6	232.5	224.4	216.4
77.5°	174.0	180.1	188.2	196.2	193.5	190.8	186.1	181.4	175.4	169.3	166.0
80°	127.7	130.4	135.7	141.1	139.8	138.4	133.1	127.7	126.3	125.0	120.3
82.5°	86.7	90.0	91.4	92.7	92.1	91.4	87.4	83.3	82.0	80.6	80.0
85°	51.7	52.4	53.1	53.8	51.7	49.7	48.4	47.0	47.0	47.0	46.4
87.5°	23.5	24.2	24.2	24.2	23.5	22.8	21.5	20.2	20.8	21.5	21.5
90°	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	31.1	30.0	29.0	27.9	26.8	25.8	24.7	23.7	24.7	25.8	26.8
95°	55.6	54.2	52.8	51.5	50.3	49.0	47.8	46.6	47.8	49.0	50.3
97.5°	83.2	82.1	81.1	80.1	79.2	78.3	77.5	76.6	77.5	78.3	79.2
100°	114.3	113.4	112.6	111.6	110.5	109.5	108.4	107.4	108.4	109.5	110.5
102.5°	148.3	147.1	145.9	145.0	144.5	144.0	143.4	142.9	143.4	144.0	144.5
105°	183.2	181.6	180.0	179.1	178.7	178.4	178.0	177.7	178.0	178.4	178.7
107.5°	221.3	220.5	219.8	219.4	219.2	219.1	218.9	218.7	218.9	219.1	219.2
110°	259.1	258.7	258.4	258.0	257.7	257.3	257.0	256.6	257.0	257.3	257.7

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	296.9	296.9	296.9	296.8	296.6	296.4	296.3	296.1	296.3	296.4	296.6
115°	337.1	337.4	337.8	337.7	337.1	336.6	336.1	335.6	336.1	336.6	337.1
117.5°	375.7	376.1	376.4	376.5	376.4	376.2	376.0	375.8	376.0	376.2	376.4
120°	415.5	416.4	417.2	417.1	416.1	415.0	414.0	412.9	414.0	415.0	416.1
122.5°	453.9	454.3	454.6	454.4	453.7	453.0	452.3	451.6	452.3	453.0	453.7
125°	492.6	492.9	493.3	493.2	492.7	492.2	491.6	491.1	491.6	492.2	492.7
127.5°	531.3	531.6	532.0	531.6	530.6	529.5	528.5	527.4	528.5	529.5	530.6
130°	568.7	569.3	569.8	569.4	568.0	566.6	565.1	563.7	565.1	566.6	568.0
132.5°	605.5	605.9	606.2	605.7	604.3	602.9	601.5	600.1	601.5	602.9	604.3
135°	641.5	641.6	641.8	641.4	640.3	639.3	638.2	637.2	638.2	639.3	640.3
137.5°	676.4	675.9	675.3	674.6	673.8	672.9	672.0	671.1	672.0	672.9	673.8
140°	711.0	710.9	710.7	710.2	709.3	708.4	707.5	706.7	707.5	708.4	709.3
142.5°	743.8	743.5	743.1	742.5	741.7	740.8	739.9	739.0	739.9	740.8	741.7
145°	775.9	775.3	774.8	774.4	774.0	773.7	773.3	773.0	773.3	773.7	774.0
147.5°	806.7	806.1	805.6	805.0	804.3	803.6	802.9	802.2	802.9	803.6	804.3
150°	835.4	835.1	834.7	834.4	834.0	833.7	833.3	833.0	833.3	833.7	834.0
152.5°	861.1	860.9	860.7	860.4	859.8	859.3	858.8	858.2	858.8	859.3	859.8
155°	885.5	885.4	885.2	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
157.5°	907.6	907.5	907.3	907.3	907.5	907.6	907.8	908.0	907.8	907.6	907.5
160°	927.7	927.7	927.7	927.9	928.3	928.6	929.0	929.3	929.0	928.6	928.3
162.5°	946.3	946.2	946.0	946.2	946.7	947.2	947.7	948.3	947.7	947.2	946.7
165°	961.7	961.7	961.7	961.9	962.5	963.0	963.5	964.0	963.5	963.0	962.5
167.5°	974.8	974.6	974.4	974.7	975.4	976.1	976.8	977.5	976.8	976.1	975.4
170°	985.4	985.4	985.4	985.7	986.4	987.1	987.8	988.5	987.8	987.1	986.4
172.5°	994.1	994.1	994.1	994.4	995.1	995.8	996.5	997.2	996.5	995.8	995.1
175°	999.6	999.6	999.6	999.9	1000.6	1001.3	1002.0	1002.7	1002.0	1001.3	1000.6
177.5°	1002.7	1002.7	1002.7	1003.1	1003.8	1004.5	1005.2	1005.9	1005.2	1004.5	1003.8
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2	2896.2
2.5°	2779.3	2753.1	2726.9	2706.7	2686.5	2652.3	2618.0	2609.9	2601.9	2590.5	2579.0
5°	2635.5	2571.0	2506.5	2448.7	2390.9	2345.9	2300.8	2271.3	2241.7	2220.2	2198.7
7.5°	2467.5	2370.7	2274.0	2205.4	2136.9	2071.7	2006.5	1985.7	1964.8	1936.6	1908.4
10°	2304.9	2198.0	2091.2	2001.8	1912.4	1848.6	1784.8	1759.2	1733.7	1698.1	1662.5
12.5°	2159.7	2042.8	1925.9	1835.8	1745.8	1684.0	1622.1	1585.2	1548.2	1528.1	1507.9
15°	2007.9	1882.9	1757.9	1674.6	1591.2	1535.5	1479.7	1447.4	1415.2	1395.7	1376.2
17.5°	1873.5	1749.8	1626.2	1546.2	1466.2	1415.2	1364.1	1335.9	1307.7	1292.9	1278.1
20°	1745.8	1624.8	1503.9	1425.9	1348.0	1306.3	1264.7	1246.5	1228.4	1216.3	1204.2
22.5°	1628.9	1509.9	1391.0	1324.5	1257.9	1224.3	1190.7	1178.0	1165.2	1155.1	1145.0
25°	1511.9	1405.8	1299.6	1243.2	1186.7	1159.2	1131.6	1118.8	1106.1	1096.0	1085.9
27.5°	1416.5	1315.1	1213.6	1165.2	1116.8	1095.3	1073.8	1063.7	1053.7	1044.2	1034.8
30°	1323.8	1233.1	1142.4	1100.7	1059.0	1039.5	1020.1	1010.0	999.9	991.2	982.4
32.5°	1237.8	1159.8	1081.9	1043.6	1005.3	989.1	973.0	960.9	948.8	942.1	935.4
35°	1155.8	1085.9	1016.0	984.4	952.9	936.7	920.6	910.5	900.4	895.1	889.7
37.5°	1085.9	1023.4	960.9	930.7	900.4	885.0	869.5	860.8	852.1	850.0	848.0
40°	1014.7	960.9	907.2	877.6	848.0	834.6	821.2	815.8	810.4	809.1	807.7
42.5°	955.5	903.1	850.7	823.8	797.0	785.5	774.1	771.4	768.7	770.8	772.8
45°	887.0	843.3	799.6	774.8	749.9	740.5	731.1	729.1	727.1	731.1	735.1
47.5°	829.2	788.9	748.6	725.1	701.5	694.8	688.1	687.4	686.8	692.1	697.5
50°	770.1	731.1	692.1	673.3	654.5	648.5	642.4	644.4	646.4	655.2	663.9
52.5°	715.0	678.7	642.4	624.9	607.5	603.4	599.4	604.1	608.8	618.2	627.6
55°	654.5	621.6	588.6	575.2	561.8	557.7	553.7	563.1	572.5	581.3	590.0
57.5°	596.7	567.8	538.9	526.8	514.7	514.1	513.4	522.1	530.9	540.3	549.7
60°	534.9	510.7	486.5	477.1	467.7	469.0	470.4	480.5	490.5	497.9	505.3
62.5°	478.4	458.3	438.1	429.4	420.7	424.0	427.4	437.5	447.5	456.3	465.0
65°	422.0	405.2	388.4	382.4	376.3	381.0	385.7	394.4	403.2	409.2	415.3
67.5°	368.2	354.1	340.0	335.3	330.6	335.3	340.0	348.8	357.5	363.5	369.6
70°	311.8	300.4	288.9	285.6	282.2	287.6	293.0	300.4	307.8	313.8	319.9
72.5°	259.4	250.6	241.9	241.2	240.6	245.3	250.0	257.4	264.8	268.8	272.8
75°	208.3	203.6	198.9	198.2	197.6	202.3	207.0	211.0	215.0	218.4	221.8
77.5°	162.6	158.6	154.6	155.2	155.9	159.3	162.6	166.6	170.7	172.7	174.7
80°	115.6	114.2	112.9	114.2	115.6	118.3	121.0	123.6	126.3	127.7	129.0
82.5°	79.3	77.9	76.6	78.6	80.6	82.7	84.7	86.7	88.7	89.4	90.0
85°	45.7	47.7	49.7	49.7	49.7	50.4	51.1	51.7	52.4	51.7	51.1
87.5°	21.5	22.2	22.8	22.8	22.8	23.5	24.2	24.2	24.2	23.5	22.8
90°	7.8	9.8	12.1	14.4	16.7	18.9	19.7	20.4	21.1	21.8	22.3
92.5°	27.9	29.0	30.0	31.1	32.1	33.2	33.7	34.2	34.7	35.3	35.4
95°	51.5	52.8	54.2	55.6	57.0	58.4	59.1	59.8	60.5	61.2	61.6
97.5°	80.1	81.1	82.1	83.2	84.2	85.3	86.1	87.0	87.9	88.8	89.1
100°	111.6	112.6	113.4	114.3	115.2	116.1	116.6	117.1	117.6	118.2	118.6
102.5°	145.0	145.9	147.1	148.3	149.6	150.8	151.3	151.9	152.4	152.9	153.1
105°	179.1	180.0	181.6	183.2	184.8	186.3	186.3	186.3	186.3	186.3	186.5
107.5°	219.4	219.8	220.5	221.3	222.0	222.7	223.2	223.7	224.2	224.8	224.9
110°	258.0	258.4	258.7	259.1	259.4	259.8	260.5	261.2	261.9	262.6	262.7

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	296.8	296.9	296.9	296.9	296.9	296.9	297.8	298.6	299.5	300.4	300.8
115°	337.7	337.8	337.4	337.1	336.7	336.4	336.5	336.7	336.9	337.1	337.1
117.5°	376.5	376.4	376.1	375.7	375.4	375.0	375.0	375.0	375.0	375.0	374.8
120°	417.1	417.2	416.4	415.5	414.6	413.7	413.6	413.4	413.2	413.0	412.8
122.5°	454.4	454.6	454.3	453.9	453.6	453.2	452.7	452.2	451.6	451.1	450.6
125°	493.2	493.3	492.9	492.6	492.2	491.9	491.2	490.5	489.8	489.1	488.4
127.5°	531.6	532.0	531.6	531.3	530.9	530.6	529.5	528.5	527.4	526.4	525.5
130°	569.4	569.8	569.3	568.7	568.2	567.7	567.0	566.3	565.6	564.9	563.9
132.5°	605.7	606.2	605.9	605.5	605.2	604.8	603.9	603.0	602.2	601.3	600.4
135°	641.4	641.8	641.6	641.5	641.3	641.1	640.4	639.7	639.0	638.3	637.8
137.5°	674.6	675.3	675.9	676.4	676.9	677.4	676.6	675.7	674.8	673.9	673.2
140°	710.2	710.7	710.9	711.0	711.2	711.4	711.2	711.0	710.9	710.7	710.0
142.5°	742.5	743.1	743.5	743.8	744.2	744.6	744.4	744.2	744.0	743.8	743.3
145°	774.4	774.8	775.3	775.9	776.4	776.9	776.7	776.6	776.4	776.2	775.8
147.5°	805.0	805.6	806.1	806.7	807.2	807.7	807.7	807.7	807.7	807.7	807.2
150°	834.4	834.7	835.1	835.4	835.8	836.1	836.1	836.1	836.1	836.1	835.6
152.5°	860.4	860.7	860.9	861.1	861.2	861.4	861.8	862.1	862.5	862.8	862.5
155°	885.1	885.2	885.4	885.5	885.7	885.9	886.6	887.3	888.0	888.7	888.4
157.5°	907.3	907.3	907.5	907.6	907.8	908.0	908.7	909.4	910.1	910.8	910.6
160°	927.9	927.7	927.7	927.7	927.7	927.7	928.6	929.5	930.4	931.2	931.3
162.5°	946.2	946.0	946.2	946.3	946.5	946.7	947.6	948.4	949.3	950.2	950.0
165°	961.9	961.7	961.7	961.7	961.7	961.7	962.7	963.8	964.8	965.9	965.8
167.5°	974.7	974.4	974.6	974.8	974.9	975.1	976.2	977.2	978.3	979.3	979.3
170°	985.7	985.4	985.4	985.4	985.4	985.4	986.6	987.8	989.1	990.3	990.3
172.5°	994.4	994.1	994.1	994.1	994.1	994.1	995.1	996.2	997.2	998.3	998.2
175°	999.9	999.6	999.6	999.6	999.6	999.6	1000.6	1001.7	1002.7	1003.8	1003.7
177.5°	1003.1	1002.7	1002.7	1002.7	1002.7	1002.7	1003.8	1004.8	1005.9	1006.9	1006.9
180°	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1	1005.1

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2896.2	2896.2	2896.2	2896.2
2.5°	2574.3	2569.6	2550.8	2532.0
5°	2182.6	2166.4	2161.1	2155.7
7.5°	1907.1	1905.7	1877.5	1849.3
10°	1664.5	1666.5	1641.0	1615.4
12.5°	1491.1	1474.3	1472.3	1470.3
15°	1360.7	1345.3	1342.6	1339.9
17.5°	1268.7	1259.3	1256.6	1253.9
20°	1198.8	1193.4	1188.7	1184.0
22.5°	1138.3	1131.6	1127.6	1123.5
25°	1079.9	1073.8	1072.5	1071.1
27.5°	1027.4	1020.1	1020.1	1020.1
30°	977.7	973.0	971.0	969.0
32.5°	931.4	927.3	927.3	927.3
35°	887.7	885.7	883.0	880.3
37.5°	848.0	848.0	846.7	845.3
40°	809.7	811.7	811.7	811.7
42.5°	774.8	776.8	776.8	776.8
45°	738.5	741.9	743.2	744.5
47.5°	702.9	708.3	709.6	710.9
50°	667.9	672.0	672.6	673.3
52.5°	632.3	637.0	640.4	643.8
55°	594.7	599.4	601.4	603.4
57.5°	554.4	559.1	559.8	560.4
60°	510.0	514.7	516.1	517.4
62.5°	467.7	470.4	471.7	473.1
65°	419.3	423.3	426.0	428.7
67.5°	372.9	376.3	376.3	376.3
70°	321.2	322.5	324.6	326.6
72.5°	273.5	274.2	274.2	274.2
75°	223.1	224.4	225.1	225.8
77.5°	175.4	176.1	176.1	176.1
80°	128.3	127.7	127.7	127.7
82.5°	88.0	86.0	86.0	86.0
85°	50.4	49.7	50.4	51.1
87.5°	22.8	22.8	22.8	22.8
90°	22.6	23.0	23.3	23.7
92.5°	35.0	34.7	34.3	34.0
95°	61.6	61.6	61.6	61.6
97.5°	89.0	88.8	88.6	88.4
100°	119.0	119.3	119.7	120.0
102.5°	152.9	152.7	152.6	152.4
105°	186.9	187.2	187.6	187.9
107.5°	224.8	224.6	224.4	224.2
110°	262.4	262.0	261.7	261.3

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
112.5°	300.8	300.8	300.8	300.8
115°	336.9	336.7	336.5	336.4
117.5°	374.2	373.7	373.2	372.7
120°	412.4	412.1	411.7	411.4
122.5°	450.0	449.5	449.0	448.5
125°	487.7	487.0	486.3	485.6
127.5°	524.8	524.1	523.4	522.7
130°	562.7	561.5	560.2	559.0
132.5°	599.5	598.7	597.8	596.9
135°	637.4	637.1	636.7	636.4
137.5°	672.7	672.2	671.6	671.1
140°	708.8	707.5	706.3	705.1
142.5°	742.4	741.6	740.7	739.8
145°	775.1	774.4	773.7	773.0
147.5°	806.1	805.1	804.0	803.0
150°	834.6	833.5	832.5	831.4
152.5°	861.7	860.8	859.9	859.0
155°	887.2	886.0	884.7	883.5
157.5°	909.6	908.5	907.5	906.4
160°	930.6	929.9	929.2	928.5
162.5°	948.8	947.6	946.3	945.1
165°	964.6	963.3	962.1	960.9
167.5°	978.3	977.2	976.2	975.1
170°	989.1	987.8	986.6	985.4
172.5°	996.9	995.7	994.5	993.3
175°	1002.5	1001.2	1000.0	998.8
177.5°	1005.6	1004.4	1003.2	1001.9
180°	1005.1	1005.1	1005.1	1005.1

TEST NUMBER: P831160

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-G1

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	16.62	17.56	17.47	18.42	19.51	18.86	19.79	19.71	20.66	21.74
	3H	18.27	19.11	19.13	19.99	21.10	20.29	21.13	21.15	22.00	23.11
	4H	18.85	19.65	19.73	20.53	21.65	20.74	21.53	21.62	22.41	23.54
	6H	19.23	19.96	20.12	20.85	21.98	21.02	21.75	21.91	22.64	23.77
	8H	19.33	20.02	20.22	20.93	22.06	21.08	21.78	21.98	22.69	23.82
	12H	19.37	20.04	20.28	20.94	22.09	21.11	21.77	22.01	22.67	23.82
4H	2H	17.20	18.00	18.09	18.88	20.00	19.03	19.82	19.91	20.70	21.82
	3H	19.04	19.70	19.93	20.61	21.75	20.65	21.31	21.55	22.23	23.36
	4H	19.74	20.34	20.64	21.25	22.41	21.24	21.84	22.15	22.75	23.91
	6H	20.22	20.74	21.14	21.67	22.83	21.65	22.17	22.57	23.10	24.27
	8H	20.36	20.84	21.28	21.77	22.94	21.76	22.25	22.68	23.17	24.35
	12H	20.43	20.86	21.37	21.81	22.99	21.81	22.25	22.75	23.19	24.37
8H	4H	20.01	20.50	20.93	21.42	22.60	21.35	21.84	22.27	22.76	23.94
	6H	20.60	21.00	21.55	21.97	23.15	21.86	22.26	22.81	23.23	24.40
	8H	20.81	21.16	21.77	22.12	23.32	22.04	22.39	23.00	23.35	24.54
	12H	20.94	21.25	21.90	22.20	23.44	22.14	22.45	23.10	23.41	24.65
12H	4H	20.02	20.45	20.96	21.40	22.58	21.33	21.77	22.27	22.71	23.89
	6H	20.65	21.01	21.61	21.97	23.16	21.87	22.23	22.83	23.19	24.38
	8H	20.89	21.20	21.85	22.16	23.40	22.08	22.39	23.04	23.34	24.58

END OF REPORT