

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: P242306

Luminaire Tested: S122DRP-S675D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S675D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

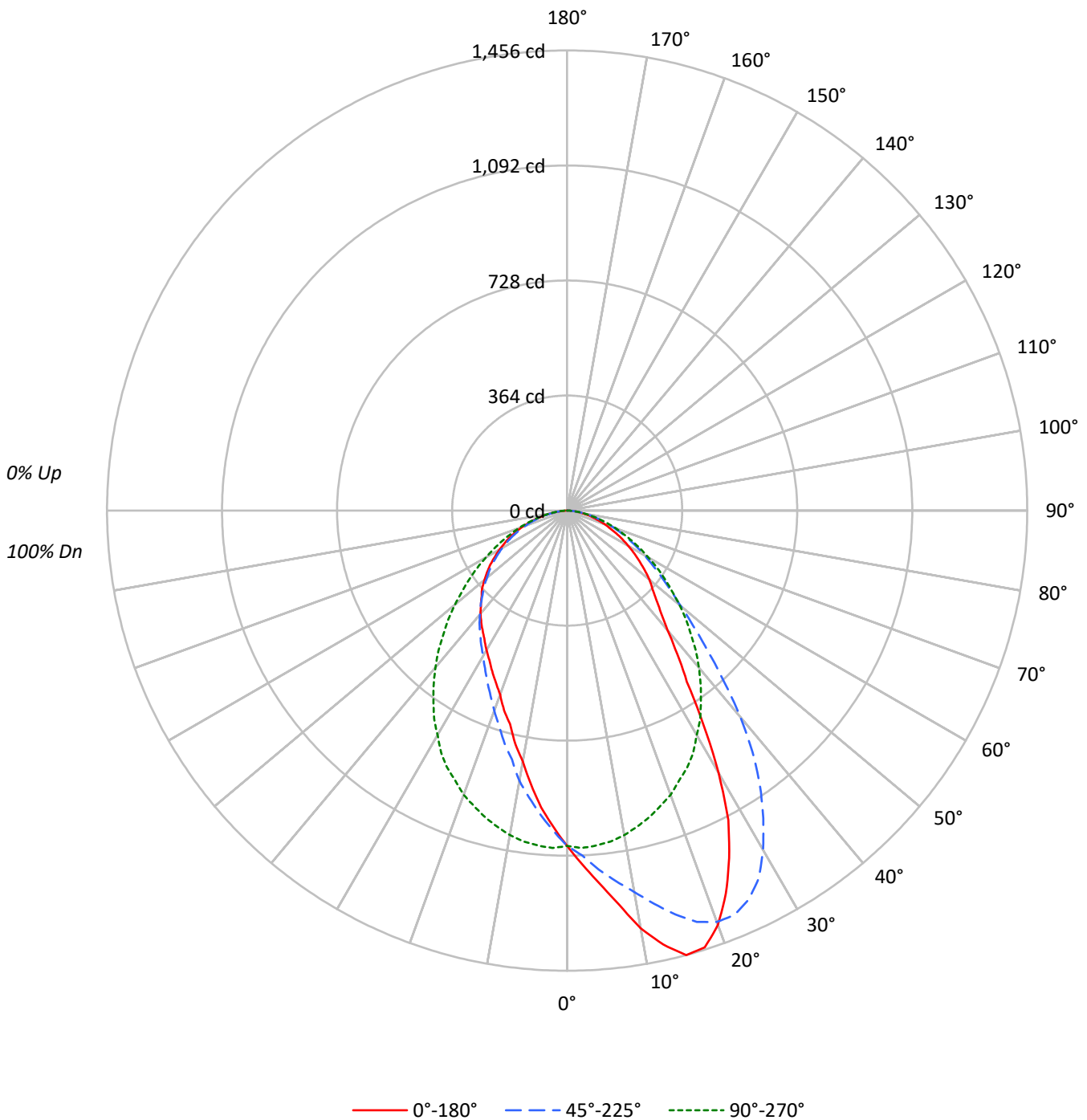
Lumens per Lamp: N/A
Luminaire Lumens: 2340.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.23
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45					43				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20206	20206	20206	20206	20206
5°	22654	21803	20338	18474	18023
10°	25958	23703	20171	16804	15597
15°	28718	26089	19802	15058	13780
20°	28279	28080	19405	13668	12561
25°	25500	28549	18877	12553	11790
30°	21073	27269	18033	11683	11226
35°	15359	24743	17149	11147	10827
40°	12266	21217	16108	10684	10602
45°	10718	16968	14902	10215	10301
50°	10075	13845	13735	9823	10099
55°	9288	12035	12550	9464	9830
60°	8511	10716	11291	9040	9413
65°	7752	9686	10163	8491	9005
70°	7039	8649	9061	7836	8398
75°	6241	7654	7830	7021	7440
80°	5364	6483	6483	5770	5989
85°	4808	5267	4808	3999	3562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 25995 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	4.3
10°-20°	294.1	12.6
20°-30°	426.8	18.2
30°-40°	449.9	19.2
40°-50°	398.1	17.0
50°-60°	317.8	13.6
60°-70°	215.9	9.2
70°-80°	110.5	4.7
80°-90°	26.1	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°	821.9	35.1
0°-40°	1271.9	54.3
0°-60°	1987.8	84.9
0°-90°	2340.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1061	1061	1061	1061	1061	
5°	1185	1140	1064	966	943	118
15°	1456	1323	1004	764	699	403
25°	1213	1358	898	597	561	550
35°	660	1064	738	479	466	428
45°	398	630	553	379	382	312
55°	280	362	378	285	296	251
65°	172	215	226	188	200	171
75°	85	104	106	95	101	90
85°	22	24	22	18	16	25
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°	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8
2.5°	1122.0	1122.4	1123.2	1116.7	1115.9	1115.9	1110.2	1105.3	1099.6	1091.8	1092.6
5°	1184.8	1189.2	1190.9	1186.0	1178.6	1177.8	1170.9	1159.5	1148.9	1140.3	1134.2
7.5°	1257.3	1259.0	1255.7	1250.0	1245.1	1235.7	1224.3	1213.3	1197.0	1182.3	1171.7
10°	1342.1	1344.6	1337.6	1328.3	1320.5	1309.1	1290.4	1271.2	1248.0	1225.5	1207.6
12.5°	1406.5	1413.5	1404.1	1404.9	1390.2	1373.5	1350.3	1342.9	1307.9	1274.5	1254.9
15°	1456.3	1455.9	1456.7	1448.9	1439.2	1436.7	1413.1	1387.4	1341.3	1323.0	1291.2
17.5°	1448.9	1454.7	1457.9	1455.5	1453.8	1450.2	1440.0	1420.8	1395.5	1364.6	1326.6
20°	1395.1	1403.3	1404.5	1413.9	1419.2	1426.1	1429.0	1424.5	1410.2	1385.3	1353.5
22.5°	1312.0	1312.8	1317.3	1333.2	1346.2	1366.2	1376.8	1396.8	1393.5	1384.5	1359.3
25°	1213.3	1209.2	1223.5	1230.8	1257.3	1285.1	1305.0	1327.0	1346.6	1358.4	1350.7
27.5°	1104.0	1095.5	1117.1	1136.2	1155.0	1181.9	1212.1	1248.0	1275.3	1312.4	1321.3
30°	958.1	961.8	982.1	1002.9	1035.5	1077.9	1113.0	1153.4	1197.0	1239.8	1269.6
32.5°	800.7	817.4	828.4	863.1	890.8	939.3	994.8	1047.8	1104.9	1155.0	1205.1
35°	660.5	676.8	694.7	718.0	758.3	805.2	855.3	923.4	997.6	1064.1	1118.7
37.5°	571.6	568.7	579.7	596.9	631.5	671.9	731.4	800.7	889.6	963.4	1036.8
40°	493.3	491.7	499.0	514.5	539.4	567.1	617.7	676.8	757.9	853.3	945.0
42.5°	439.5	441.1	444.4	454.2	469.3	490.9	525.5	573.6	646.2	734.7	835.0
45°	397.9	400.8	405.2	410.5	420.3	439.1	460.3	496.2	554.9	629.9	726.9
47.5°	365.3	366.1	371.0	375.9	381.6	393.0	411.8	434.6	479.4	543.5	630.3
50°	340.0	337.2	340.4	344.1	350.2	357.5	369.0	390.2	417.9	467.2	536.9
52.5°	309.0	309.8	312.7	313.5	318.8	326.2	336.3	349.4	373.9	409.7	464.0
55°	279.7	281.7	283.3	285.8	290.7	296.0	304.1	313.9	333.5	362.4	404.8
57.5°	252.0	252.8	254.0	259.3	262.1	267.0	275.2	284.2	297.2	319.6	353.1
60°	223.4	223.4	226.7	228.7	232.8	237.7	243.8	252.4	263.8	281.3	307.0
62.5°	197.3	196.9	197.7	201.4	204.3	208.7	214.9	221.8	232.4	247.5	267.4
65°	172.0	171.2	173.7	174.5	177.8	182.2	187.1	194.9	203.4	214.9	233.6
67.5°	146.8	148.0	149.6	151.3	152.9	158.2	161.4	167.2	174.5	184.3	197.3
70°	126.4	126.4	126.4	127.6	130.1	132.5	135.8	140.2	147.2	155.3	166.7
72.5°	103.6	105.2	106.8	105.6	108.9	110.1	114.2	116.2	122.7	127.2	137.0
75°	84.8	84.8	84.8	86.8	88.1	89.3	91.7	94.2	97.4	104.0	109.3
77.5°	66.9	66.5	66.9	67.3	68.9	70.5	71.3	73.4	76.6	79.9	84.8
80°	48.9	49.7	50.1	51.0	51.0	51.8	52.2	55.0	57.1	59.1	62.0
82.5°	35.1	35.1	35.1	35.1	35.5	35.9	37.1	37.5	37.9	39.5	41.6
85°	22.0	21.6	21.6	22.4	22.0	22.0	22.8	23.6	23.6	24.1	25.3
87.5°	10.6	10.6	11.0	10.6	10.6	11.0	11.0	10.6	11.0	11.4	11.8
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°	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8
2.5°	1095.5	1092.2	1090.2	1082.8	1076.3	1069.8	1067.8	1068.6	1059.6	1051.0	1047.4
5°	1130.9	1122.8	1115.0	1104.0	1091.0	1076.7	1069.4	1063.7	1049.4	1033.9	1024.9
7.5°	1163.2	1152.6	1138.7	1119.1	1101.2	1080.0	1066.9	1055.9	1036.0	1015.2	1002.5
10°	1192.1	1176.2	1157.0	1131.8	1108.5	1081.2	1062.0	1042.9	1018.4	992.3	976.0
12.5°	1217.0	1194.1	1175.4	1141.1	1112.6	1076.7	1053.1	1024.1	998.0	965.8	949.9
15°	1259.4	1219.8	1183.9	1147.3	1113.4	1065.7	1040.4	1004.2	970.3	932.0	913.6
17.5°	1290.8	1248.0	1192.5	1148.1	1110.6	1059.6	1023.3	980.1	941.8	899.4	874.9
20°	1316.9	1265.9	1205.1	1149.7	1102.4	1042.1	1001.7	957.3	910.4	861.1	834.1
22.5°	1332.3	1278.1	1218.2	1143.6	1086.1	1027.8	974.4	924.7	877.0	822.7	794.2
25°	1333.2	1284.2	1220.6	1140.7	1073.1	1006.6	945.4	898.2	840.7	790.9	749.8
27.5°	1319.7	1281.0	1219.4	1135.0	1058.0	981.7	915.3	863.5	802.8	748.9	707.8
30°	1289.9	1269.6	1210.0	1125.2	1039.2	955.6	880.6	819.9	759.5	704.9	662.5
32.5°	1243.9	1243.5	1192.9	1111.4	1019.2	922.6	844.3	782.8	714.3	660.9	620.9
35°	1180.7	1200.3	1167.2	1089.4	993.1	891.6	807.6	737.5	668.2	616.8	578.9
37.5°	1100.4	1145.6	1132.6	1060.0	959.7	858.6	767.3	693.9	627.4	574.4	537.3
40°	1016.8	1078.8	1087.7	1025.4	923.8	819.1	720.8	647.8	583.4	536.1	498.6
42.5°	927.1	1002.1	1030.7	983.8	884.7	777.5	679.2	603.0	539.4	493.7	461.5
45°	824.8	920.6	965.0	936.5	840.3	731.0	629.9	553.2	495.3	452.1	426.4
47.5°	732.2	836.2	892.9	879.4	792.6	684.1	584.2	509.6	452.1	417.1	393.0
50°	632.7	740.4	812.5	815.8	740.4	633.2	532.9	463.5	411.8	379.6	360.8
52.5°	546.3	647.8	728.1	748.9	682.1	580.2	486.8	417.9	373.9	344.9	328.6
55°	473.3	560.2	647.4	679.2	624.2	526.3	438.7	377.9	335.1	314.7	300.1
57.5°	404.0	480.3	563.0	596.5	561.4	475.4	390.6	337.2	300.9	282.5	271.1
60°	351.4	408.5	480.3	522.3	492.9	418.3	346.5	296.4	267.9	252.0	241.4
62.5°	302.5	351.4	409.3	446.8	434.2	364.9	302.5	259.7	236.1	221.4	214.4
65°	257.7	297.6	344.5	380.0	369.4	316.0	263.4	225.5	205.9	194.1	187.9
67.5°	219.3	249.9	283.3	316.0	307.0	267.4	223.0	192.4	177.3	166.7	163.1
70°	183.5	205.5	234.4	259.3	252.4	221.4	187.9	162.7	150.0	141.5	137.8
72.5°	149.2	166.3	186.7	205.9	201.8	177.3	150.8	133.3	124.3	116.6	113.7
75°	117.8	131.7	145.1	158.6	157.4	137.4	121.1	106.4	98.7	92.5	91.3
77.5°	92.1	100.7	110.5	119.0	117.0	104.0	90.5	81.5	75.4	71.3	70.9
80°	66.5	70.9	77.5	83.2	80.3	75.4	65.2	59.1	55.0	51.0	49.3
82.5°	43.6	48.1	51.4	53.8	51.8	47.3	42.0	38.3	36.3	33.8	33.4
85°	25.3	27.7	29.4	30.2	29.4	26.5	23.6	22.0	20.0	18.8	18.3
87.5°	12.2	12.2	12.2	13.0	11.8	11.8	10.2	9.0	8.6	8.2	7.3
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°	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8
2.5°	1043.3	1040.8	1032.3	1027.8	1020.5	1013.5	1009.0	1011.1	1012.7	1011.9	1010.7
5°	1016.8	1009.0	997.2	987.0	979.7	966.2	960.5	957.7	955.2	952.4	949.5
7.5°	987.4	976.4	959.7	946.7	933.6	916.5	907.9	903.0	897.7	891.6	885.9
10°	955.6	938.5	920.6	900.2	883.9	868.8	855.3	846.4	838.2	830.5	824.8
12.5°	922.2	901.8	878.6	848.8	830.5	807.2	808.1	790.5	776.7	772.6	765.7
15°	886.3	858.6	830.5	797.5	783.2	763.6	751.4	739.2	728.1	720.4	718.4
17.5°	847.2	810.1	782.8	758.3	735.1	715.1	704.5	694.7	685.3	673.9	673.5
20°	801.1	770.1	739.6	718.8	694.7	674.3	660.5	650.7	642.9	636.8	631.5
22.5°	757.5	722.8	695.5	672.3	648.6	633.2	623.0	613.6	607.5	600.5	595.6
25°	710.2	683.7	653.1	627.4	607.9	597.3	588.3	580.2	576.1	571.6	565.9
27.5°	669.8	640.5	610.3	590.3	572.4	563.0	556.1	550.0	546.3	543.5	539.8
30°	626.6	596.9	574.4	554.9	540.6	531.2	527.2	523.9	519.4	517.8	516.1
32.5°	585.0	559.0	540.6	524.3	510.8	505.5	501.9	499.0	495.8	494.1	490.5
35°	546.3	523.9	505.1	495.8	484.7	479.4	476.6	472.5	469.3	467.6	467.2
37.5°	509.2	488.8	476.2	463.5	458.2	455.4	451.3	448.5	447.2	446.8	446.4
40°	473.3	457.4	446.4	436.6	434.6	429.7	426.4	424.0	424.0	424.4	424.0
42.5°	440.7	426.9	417.5	409.3	406.9	404.4	401.2	401.6	402.4	404.0	402.4
45°	407.7	397.5	390.6	386.5	382.0	379.2	378.7	380.0	380.4	380.8	382.0
47.5°	376.7	370.2	363.7	358.8	356.7	356.3	355.5	357.5	359.6	360.0	362.0
50°	349.8	342.1	336.8	333.9	332.3	331.5	332.3	334.7	336.3	338.4	339.6
52.5°	319.6	314.7	311.5	309.4	309.0	309.8	309.8	312.7	315.6	316.0	316.4
55°	292.3	288.2	287.4	283.8	285.4	285.0	287.0	288.6	291.1	293.5	293.9
57.5°	264.6	260.9	258.5	258.9	259.3	260.9	262.6	265.4	268.3	271.1	271.1
60°	236.9	235.2	234.0	234.0	234.8	237.3	239.3	242.2	243.8	245.4	246.7
62.5°	211.6	210.0	208.7	209.6	212.0	213.2	215.7	216.9	218.5	220.2	220.6
65°	184.7	183.9	185.1	185.9	186.3	188.4	191.2	192.4	194.1	194.9	197.7
67.5°	160.2	160.2	159.8	161.0	163.5	163.9	166.7	170.0	170.0	171.6	173.7
70°	135.4	136.2	137.0	137.8	139.8	140.7	142.7	143.9	145.5	146.8	148.0
72.5°	112.5	112.5	113.3	112.9	114.6	116.6	118.2	119.5	121.1	122.7	123.9
75°	90.1	90.1	90.9	91.3	93.4	95.4	95.0	95.8	97.4	99.1	99.9
77.5°	69.7	68.9	69.7	70.1	70.9	72.6	73.0	74.2	76.2	75.8	76.6
80°	50.1	48.9	50.1	50.6	50.6	52.6	52.6	53.4	54.6	53.4	54.6
82.5°	32.2	31.8	32.6	32.6	33.4	33.0	33.8	33.8	35.1	34.7	35.1
85°	17.9	17.5	17.9	17.5	17.9	18.3	18.3	17.9	17.9	18.8	17.5
87.5°	6.9	6.5	6.1	6.1	5.7	5.3	4.9	4.9	4.9	4.1	4.1
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: P242306

CATALOG NUMBER: S122DRP-S675D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1060.8	1060.8	1060.8	1060.8
2.5°	1006.6	1005.8	1005.8	1002.1
5°	943.8	942.6	940.6	942.6
7.5°	884.3	879.0	878.2	874.1
10°	817.8	814.6	814.2	806.4
12.5°	767.3	758.3	760.4	756.7
15°	707.4	707.4	705.7	698.8
17.5°	664.5	664.1	660.5	662.9
20°	627.0	624.6	619.7	619.7
22.5°	591.6	592.0	586.7	588.7
25°	565.5	562.2	559.8	561.0
27.5°	538.6	537.3	536.9	533.3
30°	515.7	511.7	512.5	510.4
32.5°	489.6	488.8	487.6	486.0
35°	466.4	466.8	464.8	465.6
37.5°	445.6	447.2	446.0	446.0
40°	425.2	425.2	425.2	426.4
42.5°	405.7	404.8	404.0	403.6
45°	382.8	384.0	384.5	382.4
47.5°	362.8	363.3	362.8	365.3
50°	341.6	340.8	341.6	340.8
52.5°	319.2	319.6	318.8	318.8
55°	295.6	296.4	296.0	296.0
57.5°	271.5	271.9	272.7	270.7
60°	246.2	248.3	247.9	247.1
62.5°	223.0	223.4	223.4	223.4
65°	199.0	199.8	198.5	199.8
67.5°	172.9	173.3	174.1	174.5
70°	148.8	148.4	149.6	150.8
72.5°	123.5	124.8	123.9	124.8
75°	99.1	100.3	99.9	101.1
77.5°	75.8	76.2	76.2	76.6
80°	54.6	53.8	53.0	54.6
82.5°	33.8	34.7	33.8	33.4
85°	17.5	17.1	16.3	16.3
87.5°	4.1	3.7	3.7	3.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242306

CATALOG NUMBER: S122DRP-S675D930-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	18.74	20.26	19.10	20.57	20.88	21.99	23.51	22.36	23.82	24.14
	3H	20.15	21.51	20.52	21.84	22.20	23.00	24.36	23.38	24.69	25.05
	4H	20.65	21.93	21.05	22.28	22.65	23.32	24.60	23.72	24.95	25.33
	6H	21.01	22.18	21.42	22.55	22.94	23.52	24.70	23.93	25.06	25.45
	8H	21.12	22.24	21.54	22.63	23.03	23.56	24.68	23.99	25.07	25.47
	12H	21.19	22.26	21.62	22.65	23.07	23.58	24.65	24.01	25.03	25.46
4H	2H	19.60	20.88	20.00	21.22	21.60	22.20	23.48	22.60	23.83	24.21
	3H	21.15	22.21	21.57	22.61	23.02	23.54	24.60	23.96	25.00	25.41
	4H	21.75	22.70	22.18	23.12	23.55	24.05	25.01	24.48	25.42	25.86
	6H	22.19	23.02	22.65	23.46	23.92	24.38	25.21	24.84	25.66	26.12
	8H	22.33	23.11	22.80	23.55	24.02	24.46	25.23	24.92	25.68	26.15
	12H	22.44	23.13	22.92	23.61	24.08	24.50	25.19	24.98	25.67	26.14
8H	4H	22.18	22.95	22.64	23.40	23.87	24.18	24.95	24.64	25.40	25.86
	6H	22.71	23.35	23.21	23.84	24.32	24.62	25.26	25.11	25.75	26.23
	8H	22.90	23.48	23.42	23.99	24.48	24.75	25.32	25.26	25.83	26.32
	12H	23.06	23.57	23.57	24.06	24.63	24.84	25.35	25.35	25.84	26.40
12H	4H	22.23	22.93	22.72	23.41	23.88	24.17	24.87	24.66	25.34	25.81
	6H	22.79	23.36	23.30	23.87	24.36	24.62	25.19	25.13	25.70	26.19
	8H	23.03	23.54	23.54	24.03	24.60	24.80	25.30	25.31	25.79	26.36