

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: P243682

Luminaire Tested: S125DRP-H850D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-61)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H850D930-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

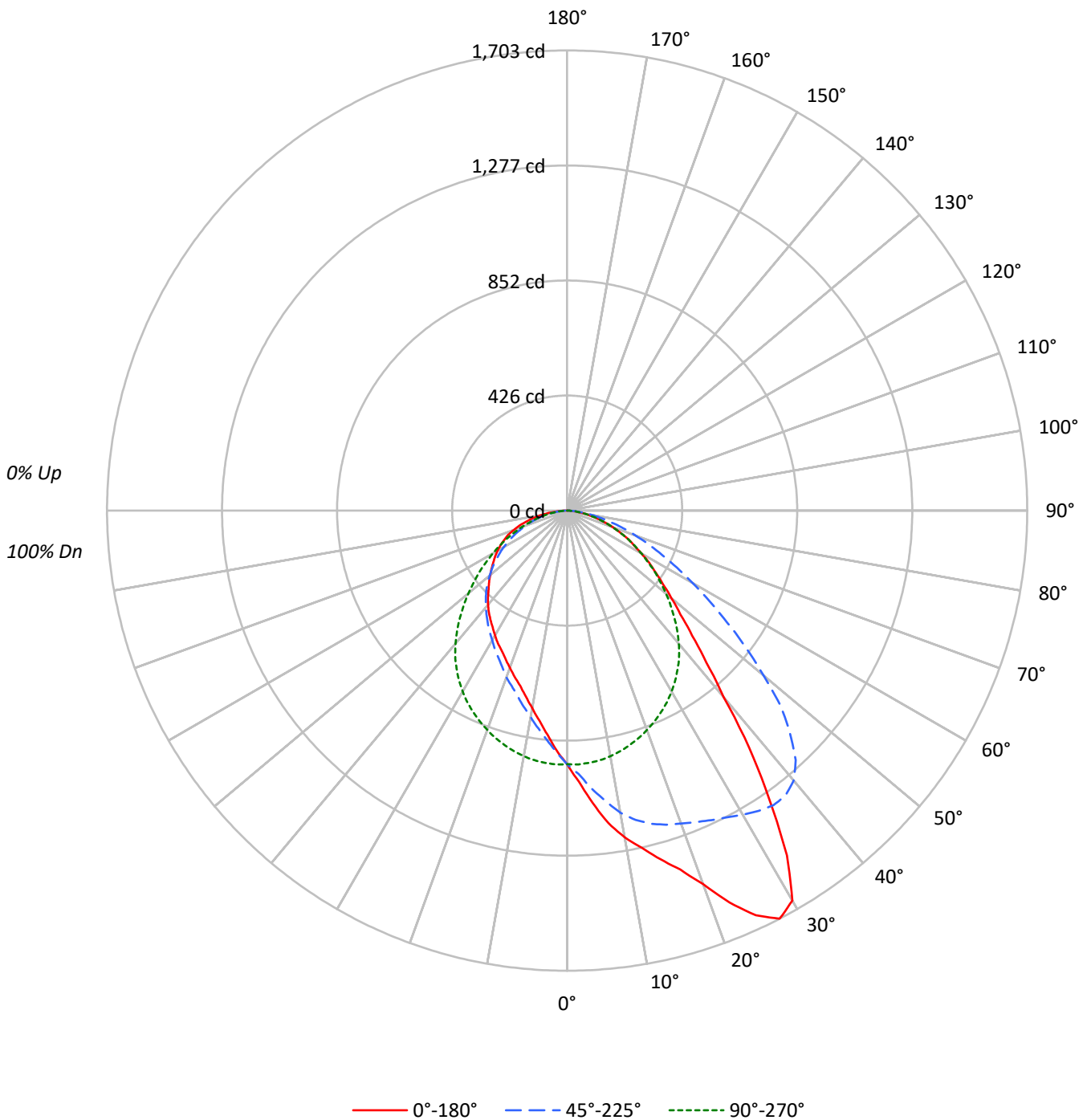
Lumens per Lamp: N/A
Luminaire Lumens: 2674.9 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61					61			
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53					53			
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	40					40			
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6671	6671	6671	6671	6671
5°	7749	7359	6685	6082	5942
10°	8867	8193	6663	5600	5361
15°	9830	8827	6604	5223	4940
20°	11129	9324	6537	4968	4686
25°	12960	9912	6453	4713	4489
30°	13681	10661	6347	4554	4379
35°	11313	11548	6192	4438	4286
40°	8369	12105	5968	4343	4223
45°	6580	11729	5643	4258	4131
50°	5572	10474	5278	4141	4115
55°	4961	8975	4914	4009	4131
60°	4502	7606	4512	3846	4220
65°	4174	6503	4135	3648	4339
70°	3749	5561	3701	3408	4366
75°	3199	4704	3251	3114	4306
80°	2615	3802	2665	2710	4019
85°	1802	2667	1892	2145	3417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11729 cd/sqm



TEST NUMBER: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.4
10°-20°	270.9	10.1
20°-30°	440.5	16.5
30°-40°	535.9	20.0
40°-50°	490.4	18.3
50°-60°	392.4	14.7
60°-70°	273.3	10.2
70°-80°	145.3	5.4
80°-90°	35.7	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°	802.0	30.0
0°-40°	1337.9	50.0
0°-60°	2220.7	83.0
0°-90°	2674.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2674.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	939	939	939	939	939	
5°	1086	1031	937	852	833	108
15°	1336	1200	898	710	671	383
25°	1653	1264	823	601	572	755
35°	1304	1331	714	512	494	808
45°	655	1167	561	424	411	516
55°	400	724	397	324	333	361
65°	248	387	246	217	258	244
75°	116	171	118	113	157	126
85°	22	33	23	26	42	29
90°	0	0	0	0	0	



TEST NUMBER: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6
2.5°	1004.8	1000.6	999.5	999.8	997.6	995.6	991.1	985.0	980.8	975.5	974.0
5°	1086.2	1076.0	1077.9	1074.8	1069.9	1063.4	1057.7	1048.6	1039.8	1031.4	1020.4
7.5°	1166.2	1164.3	1158.9	1158.2	1150.2	1139.1	1127.7	1115.2	1096.5	1083.6	1068.7
10°	1228.6	1232.4	1224.8	1225.1	1211.1	1200.0	1190.1	1173.8	1152.8	1135.3	1113.6
12.5°	1278.8	1280.3	1279.2	1274.2	1265.1	1246.5	1236.9	1219.8	1197.0	1173.0	1156.3
15°	1335.9	1331.7	1325.2	1319.2	1305.8	1292.5	1272.7	1252.6	1223.6	1199.6	1175.3
17.5°	1393.0	1392.2	1384.2	1371.3	1354.6	1337.0	1307.4	1281.5	1250.6	1219.1	1188.6
20°	1471.4	1467.2	1455.4	1440.6	1409.7	1385.0	1348.1	1312.7	1272.3	1232.8	1197.4
22.5°	1569.6	1555.9	1544.1	1521.3	1485.9	1442.9	1401.4	1350.0	1293.7	1247.2	1203.1
25°	1652.6	1646.5	1633.9	1608.4	1568.1	1516.3	1454.6	1396.4	1325.6	1264.0	1206.5
27.5°	1702.8	1700.1	1692.5	1668.5	1635.1	1583.7	1517.8	1443.6	1363.3	1280.0	1211.1
30°	1667.0	1667.4	1671.6	1668.9	1654.1	1621.0	1562.4	1487.8	1394.9	1299.0	1212.2
32.5°	1513.3	1523.5	1556.3	1571.9	1592.8	1599.7	1573.4	1511.4	1421.5	1318.0	1216.0
35°	1303.9	1329.1	1351.1	1396.8	1451.2	1495.8	1521.6	1501.5	1432.6	1331.0	1217.9
37.5°	1106.8	1104.9	1139.1	1188.6	1246.5	1322.2	1395.7	1436.0	1413.5	1328.3	1214.5
40°	902.0	919.5	940.8	984.6	1052.4	1145.6	1233.1	1319.5	1350.7	1304.7	1201.2
42.5°	762.0	770.0	791.3	825.5	874.2	969.4	1055.8	1166.9	1246.8	1252.2	1171.9
45°	654.6	663.4	669.5	703.3	748.6	812.6	901.3	1013.2	1120.5	1166.9	1124.3
47.5°	568.6	573.6	586.9	607.4	637.1	693.8	764.6	866.2	983.1	1073.3	1058.8
50°	503.9	507.7	518.4	529.8	554.2	596.0	653.1	736.5	848.7	947.3	979.7
52.5°	446.8	451.8	457.1	468.1	490.6	518.8	565.2	630.3	734.6	835.4	886.8
55°	400.4	402.3	408.0	416.4	433.5	454.8	491.7	550.7	623.8	724.3	795.1
57.5°	360.0	358.1	364.2	369.9	381.4	399.2	425.9	469.7	539.3	624.9	698.8
60°	316.7	318.6	323.1	327.7	335.7	351.3	372.2	407.2	458.2	535.1	610.5
62.5°	279.4	280.9	282.0	288.5	295.7	306.8	323.9	352.4	394.7	458.2	525.6
65°	248.2	245.5	247.0	251.6	257.3	266.4	282.4	303.3	334.9	386.7	442.6
67.5°	211.6	212.4	212.8	215.4	220.4	229.1	240.5	257.7	283.5	324.3	373.4
70°	180.4	180.8	181.2	183.4	187.6	192.6	200.6	213.9	236.0	267.6	306.0
72.5°	148.4	150.0	150.0	151.9	154.9	157.6	165.2	176.2	193.0	218.1	250.4
75°	116.5	119.1	119.9	122.2	124.8	125.6	131.3	140.1	150.7	171.3	196.8
77.5°	90.6	90.6	92.1	94.8	94.8	97.1	103.1	106.9	115.3	129.4	148.8
80°	63.9	65.1	65.1	65.8	67.4	69.3	71.9	75.4	82.6	92.9	103.1
82.5°	41.9	42.2	42.6	44.5	43.8	45.7	46.8	51.0	54.4	59.4	65.8
85°	22.1	22.1	22.5	23.6	24.7	25.1	25.9	27.8	30.4	32.7	36.5
87.5°	9.1	8.8	8.8	9.5	9.5	9.9	10.3	11.0	12.6	12.6	14.1
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: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6
2.5°	972.8	969.8	964.4	959.9	954.2	950.0	945.8	940.5	935.1	929.4	923.3
5°	1011.6	1002.5	992.2	981.9	969.8	959.9	949.2	937.0	926.8	915.3	903.2
7.5°	1056.2	1040.2	1022.3	1002.1	983.1	966.0	948.5	931.7	916.5	899.4	882.6
10°	1099.2	1071.4	1048.9	1021.5	994.5	969.4	945.4	923.3	901.3	879.9	859.4
12.5°	1128.5	1096.9	1068.7	1037.1	1005.5	974.0	942.4	911.9	885.7	859.8	838.1
15°	1148.6	1126.6	1089.3	1051.2	1009.7	968.6	932.8	897.5	866.2	836.2	810.3
17.5°	1161.2	1132.7	1096.1	1056.2	1010.5	967.5	924.5	882.2	846.5	814.1	784.8
20°	1164.6	1131.1	1093.1	1051.6	1005.9	958.7	910.4	864.3	825.5	788.6	758.9
22.5°	1161.2	1122.4	1081.7	1041.3	993.4	945.4	894.8	844.5	800.0	762.0	730.8
25°	1155.5	1108.7	1066.1	1018.5	974.0	928.3	876.1	822.9	776.4	736.8	701.8
27.5°	1148.3	1094.6	1042.1	995.3	946.9	902.0	854.1	799.6	751.3	707.9	675.2
30°	1139.9	1076.0	1017.7	962.2	916.5	871.6	824.8	773.4	724.7	683.2	647.8
32.5°	1130.4	1056.2	987.7	927.9	879.2	837.7	793.9	744.8	696.9	652.3	621.5
35°	1117.1	1029.1	955.3	890.6	840.0	795.1	756.6	713.6	666.0	624.6	592.6
37.5°	1101.5	1005.2	922.6	852.5	797.4	751.3	715.9	680.9	636.4	596.4	565.6
40°	1080.5	976.2	887.9	812.2	753.2	707.9	673.3	643.2	606.3	566.0	538.2
42.5°	1053.1	944.3	848.7	768.0	711.0	662.6	630.3	602.9	571.3	536.3	508.9
45°	1021.9	907.7	805.0	725.8	663.8	617.7	586.1	561.4	537.4	506.2	480.7
47.5°	973.2	864.7	765.4	677.8	617.0	572.4	542.7	519.1	501.2	476.5	451.4
50°	915.3	816.0	718.6	630.7	569.0	526.0	497.8	477.3	462.0	443.0	424.0
52.5°	851.8	761.2	667.2	585.0	523.3	482.6	452.9	434.6	424.7	409.5	394.7
55°	777.6	699.5	612.0	537.0	476.5	435.0	409.5	396.6	385.5	377.9	364.6
57.5°	703.0	637.1	559.1	484.9	429.3	392.4	369.6	355.1	347.1	341.8	332.3
60°	621.5	569.8	498.2	433.9	384.4	349.4	329.2	317.4	310.2	307.1	300.7
62.5°	543.9	504.3	439.2	385.5	341.4	310.6	290.4	280.9	276.3	272.9	269.1
65°	467.4	436.2	384.8	334.5	297.2	269.5	253.5	245.9	242.4	238.6	238.3
67.5°	398.5	369.9	328.8	287.7	256.5	232.9	218.8	211.2	207.4	207.8	205.9
70°	330.7	308.7	275.2	241.7	215.0	196.4	183.1	178.1	176.6	176.2	174.7
72.5°	267.6	255.0	225.7	197.5	176.6	162.1	151.5	147.3	145.4	144.6	144.6
75°	212.0	202.9	177.7	156.4	140.4	128.6	121.4	118.4	115.7	117.2	116.1
77.5°	159.1	151.5	134.4	119.1	106.9	97.1	93.6	91.0	89.4	89.1	90.6
80°	111.9	107.3	96.7	84.5	75.4	69.6	67.4	65.1	63.9	63.2	63.9
82.5°	71.9	69.3	61.7	54.4	49.1	46.1	43.8	42.6	40.7	41.1	41.9
85°	39.2	38.4	33.5	31.2	26.3	25.9	24.4	23.2	23.6	22.8	24.0
87.5°	16.0	15.2	14.1	12.9	11.4	10.3	9.5	10.3	9.1	10.3	9.9
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: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6
2.5°	920.3	916.1	911.2	906.6	899.7	895.2	892.9	893.6	891.0	890.2	889.8
5°	895.9	886.4	877.3	869.7	861.7	852.5	846.1	844.2	843.4	841.5	837.3
7.5°	870.8	858.6	846.8	835.8	824.4	813.7	807.3	801.9	798.9	793.5	792.4
10°	844.2	829.3	816.8	800.8	787.1	776.0	767.7	763.1	760.4	755.5	751.3
12.5°	818.7	803.1	783.7	769.2	754.7	743.3	733.8	726.2	724.3	717.8	714.4
15°	791.3	772.2	754.7	738.0	724.3	709.8	704.1	697.3	690.4	684.7	683.6
17.5°	765.0	742.2	725.0	708.7	691.9	681.3	673.7	669.1	663.8	660.7	655.4
20°	733.4	714.8	695.7	680.5	666.0	656.9	646.6	642.5	638.6	631.4	629.1
22.5°	706.8	684.3	668.3	653.1	640.2	627.2	620.0	615.8	610.1	606.3	603.2
25°	679.0	660.3	640.2	624.9	613.9	601.0	596.0	590.7	585.7	582.3	579.3
27.5°	652.0	631.4	615.0	599.8	588.4	579.3	572.4	566.7	563.3	560.6	558.7
30°	623.8	604.8	589.5	575.5	562.5	554.9	548.4	546.2	542.4	540.5	537.4
32.5°	598.3	578.9	564.4	552.2	540.8	533.2	529.4	526.0	522.2	518.8	518.4
35°	569.4	552.6	539.3	526.0	517.6	511.5	507.3	503.9	500.9	498.2	496.7
37.5°	543.9	527.9	513.0	503.5	494.4	489.1	484.5	483.4	480.3	480.7	478.4
40°	516.5	502.0	489.5	479.9	473.8	468.1	465.1	461.3	459.4	459.8	457.9
42.5°	489.8	476.5	465.1	456.3	449.9	445.7	443.0	440.0	437.7	436.2	435.8
45°	462.8	451.0	441.5	432.7	427.4	423.6	420.2	416.4	414.5	413.7	413.3
47.5°	436.2	425.5	415.2	409.1	404.2	400.8	397.3	394.3	392.8	391.6	389.7
50°	408.8	398.1	390.9	383.3	379.1	374.5	370.7	369.2	367.3	366.9	368.8
52.5°	380.2	371.8	365.4	359.3	354.3	349.4	345.6	343.7	344.8	344.8	347.1
55°	353.2	344.4	338.4	333.4	328.1	323.5	319.7	319.7	319.7	322.0	325.0
57.5°	323.1	315.5	310.9	305.2	300.3	297.2	294.6	294.2	295.7	299.5	303.0
60°	292.7	287.4	282.4	277.8	272.9	270.6	270.2	269.5	271.7	275.6	282.8
62.5°	262.6	259.2	253.1	250.8	246.6	244.0	244.0	244.7	248.2	254.2	260.7
65°	233.7	228.7	224.2	221.9	219.2	216.9	216.9	220.0	224.9	230.6	238.6
67.5°	204.0	199.8	196.8	194.5	191.4	190.3	191.4	194.9	201.0	206.7	215.0
70°	172.0	171.3	168.6	165.6	164.0	164.0	165.2	169.0	173.6	182.3	189.5
72.5°	142.7	142.7	141.2	139.3	138.2	139.3	140.1	143.9	149.6	157.2	165.2
75°	116.1	114.9	113.8	113.0	112.7	113.4	114.6	117.6	124.5	131.7	138.2
77.5°	89.8	89.1	87.9	88.7	88.7	89.1	92.5	95.9	99.7	105.4	112.3
80°	64.7	65.1	63.9	63.6	65.5	66.2	68.9	71.6	74.2	80.7	85.6
82.5°	42.6	43.4	43.0	43.8	44.5	44.5	47.6	50.2	52.5	57.1	60.9
85°	24.4	24.7	24.7	25.9	26.6	26.3	28.9	30.4	31.6	35.0	37.3
87.5°	10.7	11.0	11.4	11.4	11.4	12.9	13.3	14.1	14.5	15.2	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



TEST NUMBER: P243682

CATALOG NUMBER: S125DRP-H850D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	938.6	938.6	938.6	938.6
2.5°	886.4	886.0	887.9	889.1
5°	834.7	833.5	832.0	832.8
7.5°	788.6	785.6	784.8	784.8
10°	747.9	744.8	744.1	742.9
12.5°	713.2	708.7	706.8	704.9
15°	680.5	679.7	675.6	671.4
17.5°	650.4	651.6	647.4	645.5
20°	625.3	621.9	620.4	619.6
22.5°	599.8	597.2	597.2	594.5
25°	577.0	574.7	575.1	572.4
27.5°	555.7	555.3	554.9	554.2
30°	535.9	534.4	532.8	533.6
32.5°	516.9	514.6	513.4	513.0
35°	497.1	496.3	494.8	494.0
37.5°	477.7	478.0	476.1	475.7
40°	456.7	456.3	456.0	455.2
42.5°	434.6	433.5	434.3	433.9
45°	412.6	411.4	412.2	411.0
47.5°	390.9	391.6	391.6	392.0
50°	369.6	371.1	371.1	372.2
52.5°	349.8	352.8	352.8	352.4
55°	328.5	331.9	333.0	333.4
57.5°	308.3	311.7	315.1	315.9
60°	286.6	292.7	296.1	296.9
62.5°	267.2	272.9	277.5	277.8
65°	245.5	252.3	256.5	258.0
67.5°	223.4	228.7	234.4	236.7
70°	198.3	204.8	208.6	210.1
72.5°	172.0	179.3	184.2	185.0
75°	146.9	152.2	156.0	156.8
77.5°	118.4	123.7	127.1	127.9
80°	89.8	94.4	96.7	98.2
82.5°	63.6	66.6	67.7	69.3
85°	39.2	41.5	41.9	41.9
87.5°	17.1	17.5	17.5	18.3
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243682
 CATALOG NUMBER: S125DRP-H850D930-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	17.43	19.00	17.79	19.31	19.63	17.17	18.74	17.54	19.06	19.37
	3H	18.78	20.20	19.16	20.52	20.88	18.60	20.01	18.97	20.34	20.70
	4H	19.26	20.59	19.66	20.94	21.32	19.08	20.41	19.48	20.76	21.14
	6H	19.57	20.80	19.98	21.16	21.56	19.40	20.63	19.81	20.99	21.38
	8H	19.65	20.82	20.07	21.21	21.61	19.48	20.65	19.90	21.04	21.44
	12H	19.68	20.80	20.11	21.18	21.61	19.52	20.64	19.95	21.02	21.45
4H	2H	18.82	20.14	19.22	20.49	20.87	18.23	19.56	18.63	19.91	20.29
	3H	20.18	21.28	20.59	21.68	22.08	19.89	21.00	20.30	21.39	21.80
	4H	20.68	21.68	21.11	22.09	22.53	20.45	21.45	20.88	21.86	22.30
	6H	21.03	21.90	21.49	22.34	22.80	20.83	21.70	21.28	22.14	22.60
	8H	21.12	21.93	21.58	22.38	22.84	20.92	21.73	21.38	22.18	22.64
	12H	21.17	21.90	21.65	22.38	22.85	20.98	21.71	21.46	22.18	22.65
8H	4H	21.14	21.95	21.60	22.39	22.86	20.80	21.61	21.26	22.06	22.52
	6H	21.56	22.24	22.06	22.73	23.20	21.30	21.98	21.80	22.47	22.94
	8H	21.69	22.30	22.20	22.80	23.29	21.45	22.05	21.96	22.56	23.05
	12H	21.78	22.31	22.29	22.80	23.37	21.55	22.08	22.06	22.58	23.14
12H	4H	21.18	21.90	21.66	22.38	22.85	20.82	21.55	21.30	22.03	22.50
	6H	21.63	22.24	22.15	22.75	23.23	21.35	21.96	21.86	22.46	22.95
	8H	21.81	22.34	22.32	22.84	23.40	21.56	22.09	22.07	22.58	23.14