

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: P243692

Luminaire Tested: S125DRP-H850D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243692
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-H850D940-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

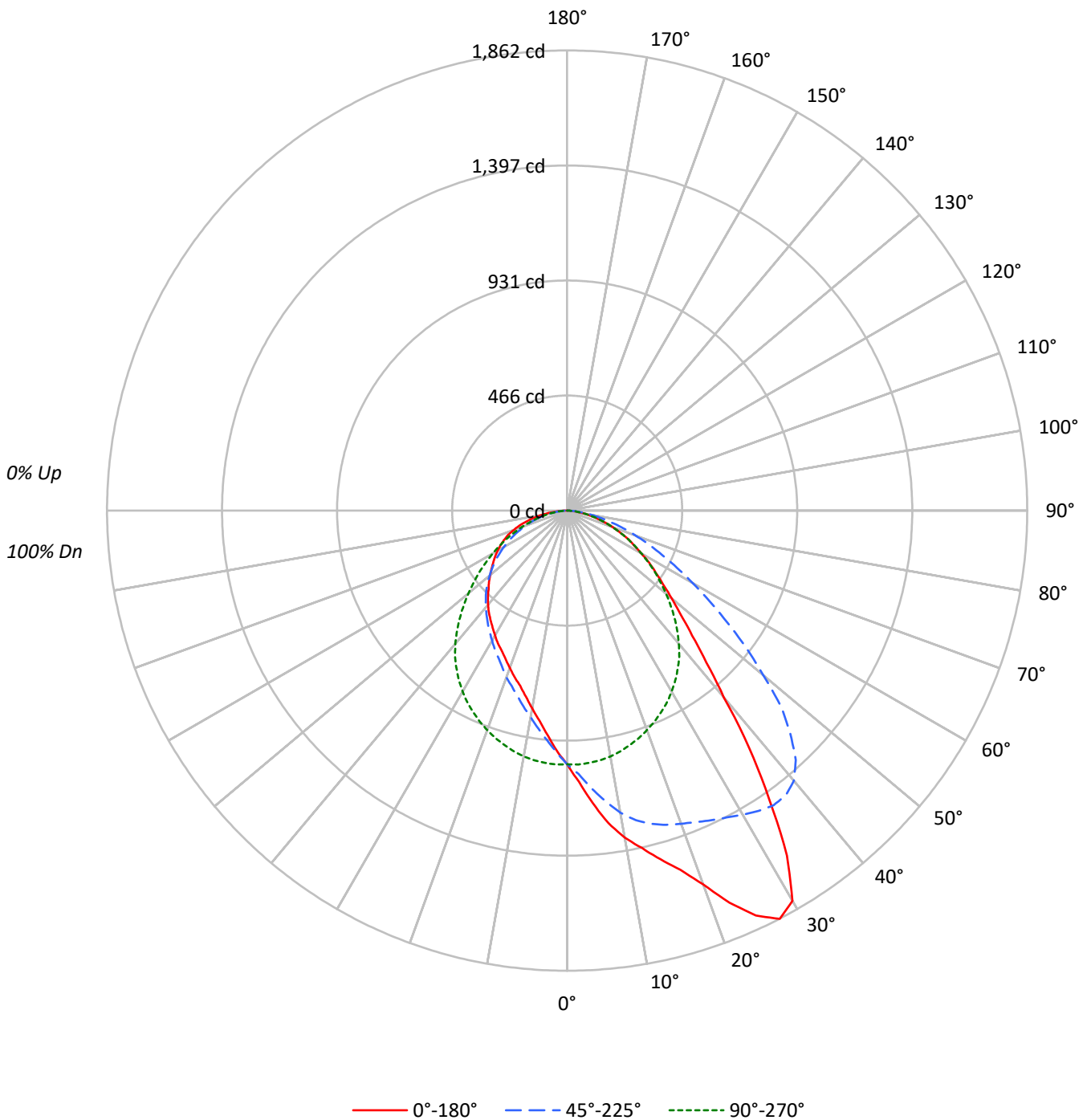
Lumens per Lamp: N/A
Luminaire Lumens: 2925.6 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (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	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°	7296	7296	7296	7296	7296
5°	8476	8048	7312	6652	6498
10°	9697	8961	7288	6126	5865
15°	10751	9655	7223	5712	5403
20°	12172	10198	7150	5434	5126
25°	14174	10841	7058	5155	4910
30°	14964	11659	6942	4981	4790
35°	12374	12630	6772	4854	4688
40°	9154	13240	6527	4750	4620
45°	7197	12828	6171	4657	4519
50°	6094	11456	5772	4529	4501
55°	5426	9816	5375	4384	4519
60°	4923	8320	4935	4208	4616
65°	4564	7112	4522	3991	4746
70°	4100	6080	4048	3728	4775
75°	3498	5143	3556	3405	4710
80°	2861	4158	2914	2963	4396
85°	1965	2919	2071	2340	3735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.4
10°-20°	296.3	10.1
20°-30°	481.7	16.5
30°-40°	586.1	20.0
40°-50°	536.3	18.3
50°-60°	429.2	14.7
60°-70°	298.9	10.2
70°-80°	158.9	5.4
80°-90°	39.0	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°	877.2	30.0
0°-40°	1463.3	50.0
0°-60°	2428.8	83.0
0°-90°	2925.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1026	1026	1026	1026	1026	
5°	1188	1128	1025	932	911	118
15°	1461	1312	982	776	734	419
25°	1807	1382	900	657	626	825
35°	1426	1456	780	560	540	884
45°	716	1276	614	463	450	565
55°	438	792	434	354	365	395
65°	271	423	269	237	282	267
75°	127	187	130	124	172	138
85°	24	36	25	29	46	31
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°	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1099.0	1094.4	1093.1	1093.5	1091.0	1089.0	1084.0	1077.3	1072.7	1066.9	1065.2
5°	1188.0	1176.8	1178.9	1175.5	1170.1	1163.1	1156.8	1146.8	1137.2	1128.1	1116.0
7.5°	1275.5	1273.4	1267.5	1266.7	1258.0	1245.9	1233.4	1219.7	1199.3	1185.1	1168.9
10°	1343.7	1347.9	1339.6	1340.0	1324.6	1312.5	1301.7	1283.8	1260.9	1241.7	1218.0
12.5°	1398.7	1400.3	1399.1	1393.7	1383.7	1363.3	1352.9	1334.1	1309.2	1282.9	1264.6
15°	1461.1	1456.5	1449.5	1442.8	1428.2	1413.7	1392.0	1369.9	1338.3	1312.1	1285.4
17.5°	1523.5	1522.7	1514.0	1499.8	1481.5	1462.4	1429.9	1401.6	1367.9	1333.3	1300.0
20°	1609.3	1604.7	1591.8	1575.6	1541.9	1514.8	1474.4	1435.7	1391.6	1348.3	1309.6
22.5°	1716.7	1701.7	1688.8	1663.8	1625.1	1578.1	1532.7	1476.5	1414.9	1364.1	1315.8
25°	1807.4	1800.8	1787.0	1759.2	1715.0	1658.4	1591.0	1527.3	1449.9	1382.4	1319.6
27.5°	1862.4	1859.5	1851.2	1824.9	1788.3	1732.1	1660.1	1578.9	1491.1	1399.9	1324.6
30°	1823.3	1823.7	1828.3	1825.3	1809.1	1772.9	1708.8	1627.2	1525.6	1420.7	1325.8
32.5°	1655.1	1666.3	1702.1	1719.2	1742.1	1749.6	1720.9	1653.0	1554.8	1441.5	1330.0
35°	1426.1	1453.6	1477.8	1527.7	1587.2	1635.9	1664.2	1642.2	1566.8	1455.7	1332.1
37.5°	1210.5	1208.4	1245.9	1300.0	1363.3	1446.1	1526.5	1570.6	1546.0	1452.8	1328.3
40°	986.6	1005.7	1029.0	1076.9	1151.0	1253.0	1348.7	1443.2	1477.3	1427.0	1313.7
42.5°	833.4	842.1	865.4	902.9	956.2	1060.2	1154.7	1276.3	1363.7	1369.5	1281.7
45°	716.0	725.6	732.2	769.3	818.8	888.7	985.7	1108.1	1225.5	1276.3	1229.7
47.5°	621.9	627.3	641.9	664.4	696.8	758.9	836.3	947.4	1075.2	1173.9	1158.1
50°	551.1	555.3	567.0	579.4	606.1	651.9	714.3	805.5	928.3	1036.1	1071.5
52.5°	488.7	494.1	499.9	512.0	536.6	567.4	618.2	689.3	803.4	913.7	969.9
55°	437.9	440.0	446.2	455.4	474.1	497.4	537.8	602.3	682.3	792.2	869.6
57.5°	393.8	391.7	398.4	404.6	417.1	436.7	465.8	513.7	589.9	683.5	764.3
60°	346.3	348.4	353.4	358.4	367.1	384.2	407.1	445.4	501.2	585.3	667.7
62.5°	305.5	307.2	308.5	315.5	323.4	335.5	354.2	385.5	431.7	501.2	574.9
65°	271.4	268.5	270.2	275.2	281.4	291.4	308.9	331.8	366.3	422.9	484.1
67.5°	231.4	232.3	232.7	235.6	241.0	250.6	263.1	281.8	310.1	354.7	408.4
70°	197.3	197.7	198.1	200.6	205.2	210.6	219.4	233.9	258.1	292.6	334.7
72.5°	162.3	164.0	164.0	166.1	169.4	172.3	180.7	192.7	211.0	238.5	273.9
75°	127.4	130.3	131.1	133.6	136.5	137.4	143.6	153.2	164.8	187.3	215.2
77.5°	99.1	99.1	100.7	103.7	103.7	106.1	112.8	117.0	126.1	141.5	162.8
80°	69.9	71.2	71.2	72.0	73.7	75.8	78.7	82.4	90.3	101.6	112.8
82.5°	45.8	46.2	46.6	48.7	47.9	50.0	51.2	55.8	59.5	64.9	72.0
85°	24.1	24.1	24.6	25.8	27.1	27.5	28.3	30.4	33.3	35.8	40.0
87.5°	10.0	9.6	9.6	10.4	10.4	10.8	11.2	12.1	13.7	13.7	15.4
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°	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1064.0	1060.7	1054.8	1049.8	1043.6	1039.0	1034.4	1028.6	1022.8	1016.5	1009.9
5°	1106.4	1096.5	1085.2	1074.0	1060.7	1049.8	1038.2	1024.9	1013.6	1001.1	987.8
7.5°	1155.1	1137.7	1118.1	1096.0	1075.2	1056.5	1037.3	1019.0	1002.4	983.6	965.3
10°	1202.2	1171.8	1147.2	1117.3	1087.7	1060.2	1034.0	1009.9	985.7	962.4	939.9
12.5°	1234.2	1199.7	1168.9	1134.3	1099.8	1065.2	1030.7	997.4	968.7	940.4	916.6
15°	1256.3	1232.2	1191.4	1149.7	1104.4	1059.4	1020.3	981.6	947.4	914.5	886.2
17.5°	1270.0	1238.8	1198.9	1155.1	1105.2	1058.2	1011.1	964.9	925.8	890.4	858.3
20°	1273.8	1237.2	1195.5	1150.2	1100.2	1048.6	995.7	945.3	902.9	862.5	830.0
22.5°	1270.0	1227.6	1183.0	1138.9	1086.5	1034.0	978.6	923.7	875.0	833.4	799.2
25°	1263.8	1212.6	1166.0	1113.9	1065.2	1015.3	958.3	900.0	849.2	805.9	767.6
27.5°	1255.9	1197.2	1139.7	1088.5	1035.7	986.6	934.1	874.6	821.7	774.3	738.5
30°	1246.7	1176.8	1113.1	1052.3	1002.4	953.3	902.1	845.9	792.6	747.2	708.5
32.5°	1236.3	1155.1	1080.2	1014.9	961.6	916.2	868.3	814.6	762.2	713.5	679.8
35°	1221.8	1125.6	1044.8	974.1	918.7	869.6	827.5	780.5	728.5	683.1	648.1
37.5°	1204.7	1099.4	1009.0	932.4	872.1	821.7	783.0	744.7	696.0	652.3	618.6
40°	1181.8	1067.7	971.2	888.3	823.8	774.3	736.4	703.5	663.1	619.0	588.6
42.5°	1151.8	1032.8	928.3	840.0	777.6	724.7	689.3	659.4	624.8	586.5	556.6
45°	1117.7	992.8	880.4	793.8	726.0	675.6	641.1	614.0	587.8	553.6	525.7
47.5°	1064.4	945.8	837.1	741.4	674.8	626.1	593.6	567.8	548.2	521.2	493.7
50°	1001.1	892.5	785.9	689.8	622.3	575.3	544.5	522.0	505.4	484.5	463.7
52.5°	931.6	832.5	729.7	639.8	572.4	527.8	495.4	475.4	464.6	447.9	431.7
55°	850.4	765.1	669.4	587.4	521.2	475.8	447.9	433.8	421.7	413.4	398.8
57.5°	768.8	696.8	611.5	530.3	469.6	429.2	404.2	388.4	379.6	373.8	363.4
60°	679.8	623.2	544.9	474.5	420.4	382.1	360.1	347.2	339.3	335.9	328.9
62.5°	594.8	551.6	480.4	421.7	373.4	339.7	317.6	307.2	302.2	298.5	294.3
65°	511.2	477.0	420.8	365.9	325.1	294.7	277.2	268.9	265.2	261.0	260.6
67.5°	435.8	404.6	359.7	314.7	280.6	254.8	239.4	231.0	226.9	227.3	225.2
70°	361.7	337.6	301.0	264.3	235.2	214.8	200.2	194.8	193.1	192.7	191.1
72.5°	292.6	278.9	246.8	216.0	193.1	177.3	165.7	161.1	159.0	158.2	158.2
75°	231.9	221.9	194.4	171.1	153.6	140.7	132.8	129.5	126.5	128.2	127.0
77.5°	174.0	165.7	146.9	130.3	117.0	106.1	102.4	99.5	97.8	97.4	99.1
80°	122.4	117.4	105.7	92.4	82.4	76.2	73.7	71.2	69.9	69.1	69.9
82.5°	78.7	75.8	67.4	59.5	53.7	50.4	47.9	46.6	44.5	45.0	45.8
85°	42.9	42.0	36.6	34.1	28.7	28.3	26.6	25.4	25.8	25.0	26.2
87.5°	17.5	16.7	15.4	14.2	12.5	11.2	10.4	11.2	10.0	11.2	10.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1006.5	1002.0	996.5	991.6	984.1	979.1	976.6	977.4	974.5	973.7	973.2
5°	979.9	969.5	959.5	951.2	942.4	932.4	925.4	923.3	922.5	920.4	915.8
7.5°	952.4	939.1	926.2	914.1	901.6	890.0	882.9	877.1	873.7	867.9	866.7
10°	923.3	907.1	893.3	875.8	860.8	848.8	839.6	834.6	831.7	826.3	821.7
12.5°	895.4	878.3	857.1	841.3	825.5	813.0	802.6	794.2	792.2	785.1	781.3
15°	865.4	844.6	825.5	807.1	792.2	776.3	770.1	762.6	755.1	748.9	747.6
17.5°	836.7	811.7	793.0	775.1	756.8	745.1	736.8	731.8	726.0	722.6	716.8
20°	802.2	781.8	760.9	744.3	728.5	718.5	707.2	702.7	698.5	690.6	688.1
22.5°	773.0	748.5	731.0	714.3	700.2	686.0	678.1	673.5	667.3	663.1	659.8
25°	742.6	722.2	700.2	683.5	671.4	657.3	651.9	646.1	640.6	636.9	633.6
27.5°	713.1	690.6	672.7	656.0	643.6	633.6	626.1	619.8	616.1	613.2	611.1
30°	682.3	661.5	644.8	629.4	615.2	606.9	599.8	597.3	593.2	591.1	587.8
32.5°	654.4	633.1	617.3	604.0	591.5	583.2	579.0	575.3	571.1	567.4	567.0
35°	622.7	604.4	589.9	575.3	566.1	559.5	554.9	551.1	547.8	544.9	543.2
37.5°	594.8	577.4	561.1	550.7	540.7	534.9	529.9	528.7	525.3	525.7	523.3
40°	564.9	549.1	535.3	524.9	518.3	512.0	508.7	504.5	502.4	502.9	500.8
42.5°	535.7	521.2	508.7	499.1	492.0	487.5	484.5	481.2	478.7	477.0	476.6
45°	506.2	493.3	482.9	473.3	467.5	463.3	459.6	455.4	453.3	452.5	452.1
47.5°	477.0	465.4	454.2	447.5	442.1	438.3	434.6	431.3	429.6	428.3	426.3
50°	447.1	435.4	427.5	419.2	414.6	409.6	405.4	403.8	401.7	401.3	403.4
52.5°	415.9	406.7	399.6	393.0	387.5	382.1	378.0	375.9	377.1	377.1	379.6
55°	386.3	376.7	370.1	364.7	358.8	353.8	349.7	349.7	349.7	352.2	355.5
57.5°	353.4	345.1	340.1	333.8	328.4	325.1	322.2	321.8	323.4	327.6	331.4
60°	320.1	314.3	308.9	303.9	298.5	296.0	295.6	294.7	297.2	301.4	309.3
62.5°	287.2	283.5	276.8	274.3	269.7	266.8	266.8	267.7	271.4	278.1	285.1
65°	255.6	250.2	245.2	242.7	239.8	237.3	237.3	240.6	246.0	252.3	261.0
67.5°	223.1	218.5	215.2	212.7	209.4	208.1	209.4	213.1	219.8	226.0	235.2
70°	188.2	187.3	184.4	181.1	179.4	179.4	180.7	184.8	189.8	199.4	207.3
72.5°	156.1	156.1	154.4	152.4	151.1	152.4	153.2	157.3	163.6	171.9	180.7
75°	127.0	125.7	124.5	123.6	123.2	124.0	125.3	128.6	136.1	144.0	151.1
77.5°	98.2	97.4	96.2	97.0	97.0	97.4	101.2	104.9	109.1	115.3	122.8
80°	70.8	71.2	69.9	69.5	71.6	72.4	75.3	78.3	81.2	88.2	93.7
82.5°	46.6	47.5	47.0	47.9	48.7	48.7	52.0	54.9	57.4	62.4	66.6
85°	26.6	27.1	27.1	28.3	29.1	28.7	31.6	33.3	34.6	38.3	40.8
87.5°	11.7	12.1	12.5	12.5	12.5	14.2	14.6	15.4	15.8	16.7	17.9
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: P243692

CATALOG NUMBER: S125DRP-H850D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1026.5	1026.5	1026.5	1026.5
2.5°	969.5	969.1	971.2	972.4
5°	912.9	911.6	910.0	910.8
7.5°	862.5	859.2	858.3	858.3
10°	818.0	814.6	813.8	812.6
12.5°	780.1	775.1	773.0	770.9
15°	744.3	743.5	738.9	734.3
17.5°	711.4	712.7	708.1	706.0
20°	683.9	680.2	678.5	677.7
22.5°	656.0	653.1	653.1	650.2
25°	631.1	628.6	629.0	626.1
27.5°	607.8	607.3	606.9	606.1
30°	586.1	584.4	582.8	583.6
32.5°	565.3	562.8	561.5	561.1
35°	543.6	542.8	541.2	540.3
37.5°	522.4	522.8	520.8	520.3
40°	499.5	499.1	498.7	497.9
42.5°	475.4	474.1	475.0	474.5
45°	451.2	450.0	450.8	449.6
47.5°	427.5	428.3	428.3	428.8
50°	404.2	405.9	405.9	407.1
52.5°	382.6	385.9	385.9	385.5
55°	359.2	363.0	364.2	364.7
57.5°	337.2	340.9	344.7	345.5
60°	313.5	320.1	323.9	324.7
62.5°	292.2	298.5	303.5	303.9
65°	268.5	276.0	280.6	282.2
67.5°	244.4	250.2	256.4	258.9
70°	216.9	224.0	228.1	229.8
72.5°	188.2	196.1	201.5	202.3
75°	160.7	166.5	170.7	171.5
77.5°	129.5	135.3	139.0	139.9
80°	98.2	103.2	105.7	107.4
82.5°	69.5	72.8	74.1	75.8
85°	42.9	45.4	45.8	45.8
87.5°	18.7	19.1	19.1	20.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243692
 CATALOG NUMBER: S125DRP-H850D940-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	17.74	19.31	18.11	19.62	19.94	17.48	19.05	17.85	19.37	19.68
	3H	19.09	20.51	19.47	20.83	21.20	18.91	20.32	19.28	20.65	21.01
	4H	19.57	20.90	19.97	21.25	21.63	19.39	20.72	19.79	21.07	21.45
	6H	19.88	21.11	20.29	21.47	21.87	19.71	20.94	20.12	21.30	21.70
	8H	19.96	21.13	20.38	21.52	21.92	19.79	20.96	20.21	21.35	21.75
	12H	19.99	21.11	20.42	21.49	21.92	19.83	20.95	20.26	21.33	21.76
4H	2H	19.13	20.45	19.53	20.80	21.18	18.54	19.87	18.94	20.22	20.60
	3H	20.49	21.59	20.90	21.99	22.39	20.20	21.31	20.61	21.71	22.11
	4H	20.99	21.99	21.42	22.40	22.84	20.76	21.76	21.19	22.17	22.61
	6H	21.34	22.21	21.80	22.65	23.11	21.14	22.01	21.60	22.45	22.91
	8H	21.43	22.25	21.90	22.69	23.16	21.23	22.05	21.70	22.49	22.96
	12H	21.48	22.21	21.96	22.69	23.16	21.29	22.02	21.77	22.50	22.97
8H	4H	21.45	22.26	21.91	22.70	23.17	21.11	21.93	21.58	22.37	22.84
	6H	21.88	22.55	22.37	23.04	23.51	21.62	22.29	22.11	22.78	23.26
	8H	22.00	22.61	22.51	23.11	23.60	21.76	22.37	22.27	22.87	23.36
	12H	22.09	22.62	22.60	23.11	23.68	21.86	22.40	22.37	22.89	23.45
12H	4H	21.49	22.21	21.97	22.69	23.16	21.13	21.86	21.62	22.34	22.81
	6H	21.95	22.55	22.46	23.06	23.55	21.66	22.27	22.18	22.78	23.26
	8H	22.12	22.65	22.63	23.15	23.71	21.87	22.40	22.38	22.89	23.46