

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: P243683

Luminaire Tested: S125DRP-H1090D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243683
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-H1090D930-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

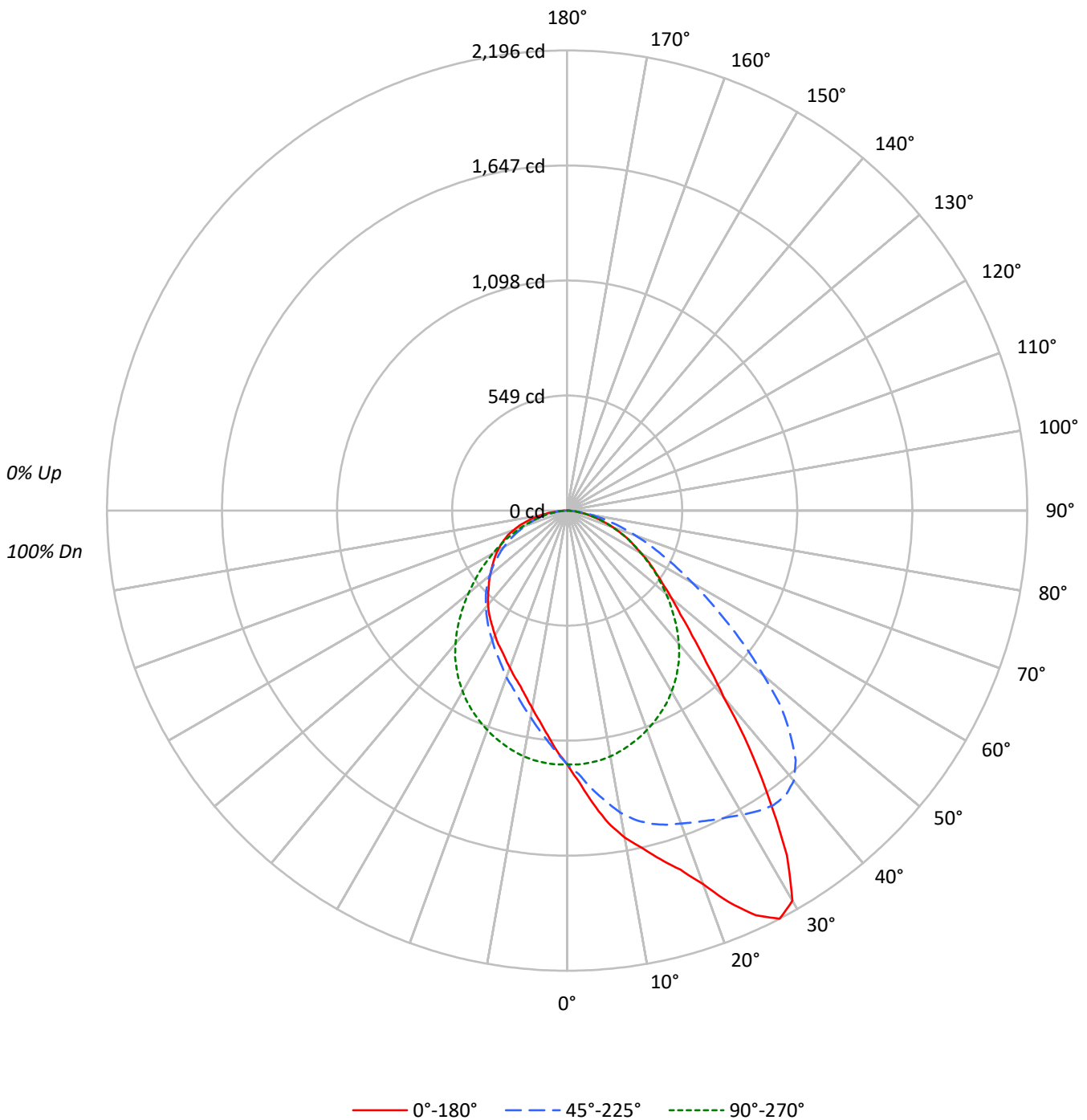
Lumens per Lamp: N/A
Luminaire Lumens: 3449.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	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°	8603	8603	8603	8603	8603
5°	9994	9490	8621	7844	7662
10°	11435	10566	8594	7223	6915
15°	12676	11384	8516	6736	6371
20°	14352	12024	8431	6408	6044
25°	16713	12783	8322	6078	5789
30°	17643	13748	8186	5873	5647
35°	14590	14892	7985	5724	5528
40°	10793	15611	7696	5601	5446
45°	8485	15126	7277	5491	5328
50°	7186	13508	6806	5341	5307
55°	6399	11575	6337	5170	5328
60°	5805	9810	5819	4961	5441
65°	5382	8387	5333	4706	5597
70°	4836	7171	4773	4395	5629
75°	4125	6066	4190	4017	5553
80°	3377	4903	3434	3495	5182
85°	2324	3441	2438	2764	4404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.4
10°-20°	349.4	10.1
20°-30°	568.0	16.5
30°-40°	691.1	20.0
40°-50°	632.4	18.3
50°-60°	506.1	14.7
60°-70°	352.5	10.2
70°-80°	187.3	5.4
80°-90°	46.0	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°	1034.3	30.0
0°-40°	1725.4	50.0
0°-60°	2863.9	83.0
0°-90°	3449.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1210	1210	1210	1210	1210	
5°	1401	1330	1208	1100	1074	139
15°	1723	1547	1157	915	866	494
25°	2131	1630	1061	775	738	973
35°	1682	1716	920	660	637	1043
45°	844	1505	724	546	530	666
55°	516	934	511	417	430	466
65°	320	499	317	280	333	315
75°	150	221	153	146	202	162
85°	28	42	30	34	54	37
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°	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4
2.5°	1295.8	1290.4	1288.9	1289.4	1286.5	1284.0	1278.1	1270.3	1264.9	1258.0	1256.0
5°	1400.8	1387.6	1390.0	1386.1	1379.7	1371.4	1364.0	1352.2	1341.0	1330.2	1315.9
7.5°	1503.9	1501.5	1494.6	1493.6	1483.3	1469.1	1454.3	1438.1	1414.1	1397.4	1378.3
10°	1584.4	1589.3	1579.5	1580.0	1561.8	1547.6	1534.8	1513.7	1486.7	1464.1	1436.2
12.5°	1649.2	1651.2	1649.7	1643.3	1631.5	1607.5	1595.2	1573.1	1543.7	1512.7	1491.1
15°	1722.8	1717.4	1709.1	1701.2	1684.0	1666.9	1641.3	1615.3	1578.0	1547.1	1515.7
17.5°	1796.4	1795.5	1785.2	1768.5	1746.9	1724.3	1686.0	1652.6	1612.9	1572.1	1532.9
20°	1897.6	1892.2	1876.9	1857.8	1818.0	1786.1	1738.5	1692.9	1640.8	1589.8	1544.2
22.5°	2024.2	2006.5	1991.3	1961.9	1916.2	1860.7	1807.2	1741.0	1668.3	1608.5	1551.5
25°	2131.2	2123.3	2107.1	2074.3	2022.2	1955.5	1876.0	1800.9	1709.6	1630.0	1555.9
27.5°	2196.0	2192.5	2182.7	2151.8	2108.6	2042.3	1957.4	1861.7	1758.2	1650.7	1561.8
30°	2149.8	2150.3	2155.7	2152.3	2133.2	2090.4	2014.9	1918.7	1798.9	1675.2	1563.3
32.5°	1951.5	1964.8	2007.0	2027.1	2054.1	2063.0	2029.1	1949.1	1833.3	1699.7	1568.2
35°	1681.6	1714.0	1742.4	1801.3	1871.5	1929.0	1962.3	1936.3	1847.5	1716.4	1570.7
37.5°	1427.3	1424.9	1469.1	1532.9	1607.5	1705.1	1799.9	1851.9	1822.9	1713.0	1566.2
40°	1163.3	1185.8	1213.3	1269.8	1357.1	1477.4	1590.3	1701.7	1742.0	1682.6	1549.1
42.5°	982.6	993.0	1020.4	1064.6	1127.4	1250.1	1361.6	1504.9	1608.0	1614.8	1511.3
45°	844.2	855.5	863.4	907.1	965.5	1047.9	1162.3	1306.6	1445.0	1504.9	1449.9
47.5°	733.3	739.7	756.9	783.4	821.7	894.8	986.1	1117.1	1267.8	1384.1	1365.5
50°	649.9	654.8	668.5	683.2	714.6	768.6	842.3	949.8	1094.6	1221.7	1263.4
52.5°	576.2	582.6	589.5	603.7	632.7	669.0	728.9	812.8	947.3	1077.4	1143.6
55°	516.4	518.8	526.2	537.0	559.1	586.5	634.2	710.2	804.5	934.1	1025.3
57.5°	464.3	461.9	469.7	477.1	491.8	514.9	549.2	605.7	695.5	805.9	901.2
60°	408.4	410.8	416.7	422.6	432.9	453.0	480.0	525.2	591.0	690.1	787.3
62.5°	360.3	362.2	363.7	372.0	381.4	395.6	417.7	454.5	509.0	591.0	677.8
65°	320.0	316.6	318.5	324.4	331.8	343.6	364.2	391.2	431.9	498.7	570.8
67.5°	272.9	273.9	274.4	277.8	284.2	295.5	310.2	332.3	365.7	418.2	481.5
70°	232.7	233.1	233.6	236.6	242.0	248.4	258.7	275.8	304.3	345.1	394.6
72.5°	191.4	193.4	193.4	195.8	199.8	203.2	213.0	227.3	248.9	281.2	323.0
75°	150.2	153.6	154.6	157.6	161.0	162.0	169.3	180.6	194.4	220.9	253.8
77.5°	116.8	116.8	118.8	122.2	122.2	125.2	133.0	137.9	148.7	166.9	191.9
80°	82.5	83.9	83.9	84.9	86.9	89.3	92.8	97.2	106.5	119.8	133.0
82.5°	54.0	54.5	55.0	57.4	56.4	58.9	60.4	65.8	70.2	76.6	84.9
85°	28.5	28.5	29.0	30.4	31.9	32.4	33.4	35.8	39.3	42.2	47.1
87.5°	11.8	11.3	11.3	12.3	12.3	12.8	13.3	14.2	16.2	16.2	18.2
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°	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4
2.5°	1254.6	1250.6	1243.8	1237.9	1230.5	1225.1	1219.7	1212.8	1206.0	1198.6	1190.8
5°	1304.6	1292.8	1279.6	1266.3	1250.6	1237.9	1224.1	1208.4	1195.2	1180.4	1164.7
7.5°	1362.1	1341.4	1318.4	1292.4	1267.8	1245.7	1223.2	1201.6	1181.9	1159.8	1138.2
10°	1417.5	1381.7	1352.7	1317.4	1282.5	1250.1	1219.2	1190.8	1162.3	1134.8	1108.3
12.5°	1455.3	1414.6	1378.3	1337.5	1296.8	1256.0	1215.3	1176.0	1142.2	1108.8	1080.8
15°	1481.3	1452.9	1404.8	1355.7	1302.2	1249.2	1203.0	1157.4	1117.1	1078.4	1045.0
17.5°	1497.5	1460.7	1413.6	1362.1	1303.2	1247.7	1192.2	1137.7	1091.6	1049.9	1012.1
20°	1501.9	1458.7	1409.7	1356.2	1297.3	1236.4	1174.1	1114.7	1064.6	1017.0	978.7
22.5°	1497.5	1447.5	1394.9	1342.9	1281.1	1219.2	1153.9	1089.2	1031.7	982.6	942.4
25°	1490.2	1429.8	1374.8	1313.5	1256.0	1197.1	1129.9	1061.2	1001.3	950.2	905.1
27.5°	1480.8	1411.6	1343.9	1283.5	1221.2	1163.3	1101.4	1031.2	968.9	912.9	870.7
30°	1470.0	1387.6	1312.5	1240.8	1181.9	1124.0	1063.6	997.4	934.5	881.0	835.4
32.5°	1457.8	1362.1	1273.7	1196.6	1133.8	1080.3	1023.9	960.6	898.7	841.3	801.5
35°	1440.6	1327.2	1232.0	1148.5	1083.3	1025.3	975.8	920.3	859.0	805.5	764.2
37.5°	1420.5	1296.3	1189.8	1099.5	1028.3	968.9	923.3	878.1	820.7	769.1	729.4
40°	1393.5	1259.0	1145.1	1047.4	971.4	912.9	868.3	829.5	781.9	729.9	694.0
42.5°	1358.1	1217.8	1094.6	990.5	916.9	854.5	812.8	777.5	736.7	691.6	656.2
45°	1317.9	1170.6	1038.1	936.0	856.0	796.6	755.9	724.0	693.1	652.8	619.9
47.5°	1255.1	1115.2	987.1	874.2	795.6	738.2	699.9	669.5	646.4	614.5	582.1
50°	1180.4	1052.3	926.7	813.3	733.8	678.3	642.0	615.5	595.9	571.3	546.8
52.5°	1098.5	981.7	860.4	754.4	674.9	622.4	584.1	560.5	547.8	528.1	509.0
55°	1002.8	902.1	789.3	692.6	614.5	561.0	528.1	511.4	497.2	487.4	470.2
57.5°	906.6	821.7	721.0	625.3	553.7	506.0	476.6	457.9	447.6	440.8	428.5
60°	801.5	734.8	642.5	559.5	495.7	450.6	424.6	409.4	400.0	396.1	387.8
62.5°	701.4	650.4	566.4	497.2	440.3	400.5	374.5	362.2	356.3	351.9	347.0
65°	602.7	562.5	496.2	431.4	383.3	347.5	326.9	317.1	312.7	307.8	307.3
67.5°	513.9	477.1	424.1	371.1	330.8	300.4	282.2	272.4	267.5	268.0	265.5
70°	426.5	398.1	354.9	311.7	277.3	253.3	236.1	229.7	227.7	227.3	225.3
72.5°	345.1	328.9	291.1	254.7	227.7	209.1	195.4	190.0	187.5	186.5	186.5
75°	273.4	261.6	229.2	201.7	181.1	165.9	156.6	152.6	149.2	151.2	149.7
77.5°	205.2	195.4	173.3	153.6	137.9	125.2	120.7	117.3	115.3	114.9	116.8
80°	144.3	138.4	124.7	109.0	97.2	89.8	86.9	83.9	82.5	81.5	82.5
82.5°	92.8	89.3	79.5	70.2	63.3	59.4	56.4	55.0	52.5	53.0	54.0
85°	50.6	49.6	43.2	40.2	33.9	33.4	31.4	29.9	30.4	29.4	30.9
87.5°	20.6	19.6	18.2	16.7	14.7	13.3	12.3	13.3	11.8	13.3	12.8
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°	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4
2.5°	1186.8	1181.4	1175.0	1169.2	1160.3	1154.4	1151.5	1152.5	1149.0	1148.1	1147.6
5°	1155.4	1143.1	1131.4	1121.5	1111.2	1099.5	1091.1	1088.7	1087.7	1085.2	1079.8
7.5°	1123.0	1107.3	1092.1	1077.9	1063.1	1049.4	1041.1	1034.2	1030.3	1023.4	1021.9
10°	1088.7	1069.5	1053.3	1032.7	1015.0	1000.8	990.0	984.1	980.7	974.3	968.9
12.5°	1055.8	1035.7	1010.6	992.0	973.3	958.6	946.3	936.5	934.1	925.7	921.3
15°	1020.4	995.9	973.3	951.7	934.1	915.4	908.0	899.2	890.4	883.0	881.5
17.5°	986.6	957.1	935.0	913.9	892.3	878.6	868.8	862.9	856.0	852.1	845.2
20°	945.8	921.8	897.2	877.6	859.0	847.2	833.9	828.5	823.6	814.3	811.3
22.5°	911.5	882.5	861.9	842.3	825.6	808.9	799.6	794.2	786.8	781.9	778.0
25°	875.6	851.6	825.6	805.9	791.7	775.0	768.6	761.8	755.4	751.0	747.0
27.5°	840.8	814.3	793.2	773.5	758.8	747.0	738.2	730.8	726.4	723.0	720.5
30°	804.5	779.9	760.3	742.1	725.4	715.6	707.3	704.3	699.4	697.0	693.1
32.5°	771.6	746.6	727.9	712.2	697.5	687.7	682.7	678.3	673.4	669.0	668.5
35°	734.3	712.7	695.5	678.3	667.5	659.7	654.3	649.9	645.9	642.5	640.5
37.5°	701.4	680.8	661.6	649.4	637.6	630.7	624.8	623.4	619.4	619.9	617.0
40°	666.1	647.4	631.2	618.9	611.1	603.7	599.8	594.9	592.4	592.9	590.5
42.5°	631.7	614.5	599.8	588.5	580.2	574.8	571.3	567.4	564.5	562.5	562.0
45°	596.9	581.6	569.4	558.1	551.2	546.3	541.9	537.0	534.5	533.5	533.0
47.5°	562.5	548.7	535.5	527.6	521.3	516.8	512.4	508.5	506.5	505.1	502.6
50°	527.2	513.4	504.1	494.3	488.9	483.0	478.1	476.1	473.7	473.2	475.6
52.5°	490.3	479.5	471.2	463.3	457.0	450.6	445.7	443.2	444.7	444.7	447.6
55°	455.5	444.2	436.3	430.0	423.1	417.2	412.3	412.3	412.3	415.2	419.2
57.5°	416.7	406.9	401.0	393.6	387.3	383.3	379.9	379.4	381.4	386.3	390.7
60°	377.4	370.6	364.2	358.3	351.9	349.0	348.5	347.5	350.5	355.4	364.7
62.5°	338.7	334.3	326.4	323.5	318.1	314.6	314.6	315.6	320.0	327.9	336.2
65°	301.4	295.0	289.1	286.2	282.7	279.8	279.8	283.7	290.1	297.4	307.8
67.5°	263.1	257.7	253.8	250.8	246.9	245.4	246.9	251.3	259.2	266.5	277.3
70°	221.9	220.9	217.4	213.5	211.5	211.5	213.0	217.9	223.8	235.1	244.4
72.5°	184.1	184.1	182.1	179.6	178.2	179.6	180.6	185.5	192.9	202.7	213.0
75°	149.7	148.2	146.8	145.8	145.3	146.3	147.7	151.7	160.5	169.8	178.2
77.5°	115.8	114.9	113.4	114.4	114.4	114.9	119.3	123.7	128.6	136.0	144.8
80°	83.4	83.9	82.5	82.0	84.4	85.4	88.8	92.3	95.7	104.1	110.4
82.5°	55.0	56.0	55.5	56.4	57.4	57.4	61.4	64.8	67.7	73.6	78.5
85°	31.4	31.9	31.9	33.4	34.4	33.9	37.3	39.3	40.7	45.2	48.1
87.5°	13.7	14.2	14.7	14.7	14.7	16.7	17.2	18.2	18.7	19.6	21.1
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: P243683

CATALOG NUMBER: S125DRP-H1090D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1210.4	1210.4	1210.4	1210.4
2.5°	1143.1	1142.7	1145.1	1146.6
5°	1076.4	1074.9	1073.0	1073.9
7.5°	1017.0	1013.1	1012.1	1012.1
10°	964.5	960.6	959.6	958.1
12.5°	919.8	913.9	911.5	909.0
15°	877.6	876.6	871.2	865.8
17.5°	838.8	840.3	834.9	832.4
20°	806.4	802.0	800.1	799.1
22.5°	773.5	770.1	770.1	766.7
25°	744.1	741.2	741.6	738.2
27.5°	716.6	716.1	715.6	714.6
30°	691.1	689.1	687.2	688.1
32.5°	666.5	663.6	662.1	661.6
35°	641.0	640.0	638.1	637.1
37.5°	616.0	616.5	614.0	613.5
40°	589.0	588.5	588.0	587.0
42.5°	560.5	559.1	560.0	559.5
45°	532.1	530.6	531.6	530.1
47.5°	504.1	505.1	505.1	505.6
50°	476.6	478.6	478.6	480.0
52.5°	451.1	455.0	455.0	454.5
55°	423.6	428.0	429.5	430.0
57.5°	397.6	402.0	406.4	407.4
60°	369.6	377.4	381.9	382.8
62.5°	344.6	351.9	357.8	358.3
65°	316.6	325.4	330.8	332.8
67.5°	288.1	295.0	302.4	305.3
70°	255.7	264.1	269.0	270.9
72.5°	221.9	231.2	237.6	238.5
75°	189.5	196.3	201.2	202.2
77.5°	152.6	159.5	163.9	164.9
80°	115.8	121.7	124.7	126.6
82.5°	82.0	85.9	87.4	89.3
85°	50.6	53.5	54.0	54.0
87.5°	22.1	22.6	22.6	23.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243683
 CATALOG NUMBER: S125DRP-H1090D930-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	18.31	19.88	18.68	20.20	20.51	18.05	19.63	18.42	19.94	20.25
	3H	19.67	21.08	20.04	21.41	21.77	19.48	20.89	19.86	21.22	21.58
	4H	20.15	21.47	20.55	21.82	22.20	19.97	21.29	20.37	21.64	22.02
	6H	20.45	21.68	20.87	22.05	22.44	20.28	21.51	20.69	21.88	22.27
	8H	20.53	21.70	20.96	22.09	22.49	20.36	21.53	20.79	21.92	22.32
	12H	20.56	21.69	20.99	22.07	22.50	20.40	21.52	20.83	21.90	22.33
4H	2H	19.70	21.03	20.10	21.38	21.75	19.12	20.44	19.52	20.79	21.17
	3H	21.06	22.17	21.47	22.56	22.96	20.77	21.88	21.18	22.28	22.68
	4H	21.56	22.56	22.00	22.97	23.41	21.33	22.33	21.77	22.75	23.18
	6H	21.92	22.78	22.37	23.23	23.68	21.71	22.58	22.17	23.02	23.48
	8H	22.01	22.82	22.47	23.26	23.73	21.81	22.62	22.27	23.06	23.53
	12H	22.06	22.78	22.54	23.26	23.73	21.86	22.59	22.34	23.07	23.54
8H	4H	22.02	22.83	22.48	23.27	23.74	21.69	22.50	22.15	22.94	23.41
	6H	22.45	23.12	22.94	23.61	24.09	22.19	22.86	22.68	23.35	23.83
	8H	22.58	23.18	23.09	23.69	24.17	22.33	22.94	22.85	23.45	23.93
	12H	22.66	23.20	23.17	23.69	24.25	22.43	22.97	22.94	23.46	24.02
12H	4H	22.06	22.79	22.54	23.26	23.73	21.71	22.43	22.19	22.91	23.38
	6H	22.52	23.12	23.03	23.63	24.12	22.24	22.84	22.75	23.35	23.84
	8H	22.69	23.23	23.20	23.72	24.28	22.44	22.97	22.95	23.47	24.03