

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: P243688

Luminaire Tested: S125DRP-H1090D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243688
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-H1090D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

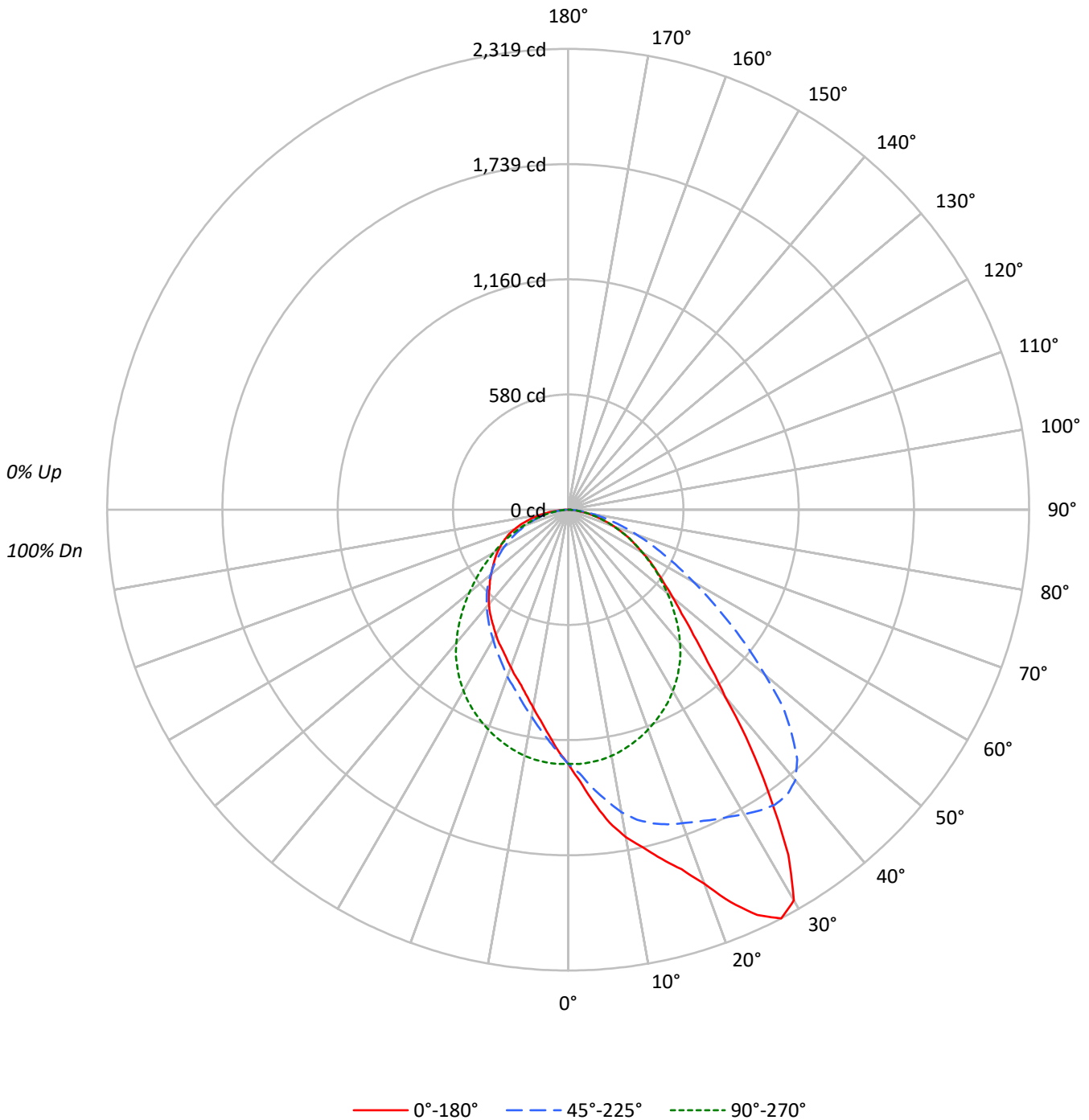
Lumens per Lamp: N/A
Luminaire Lumens: 3643.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9085	9085	9085	9085	9085
5°	10555	10022	9105	8284	8091
10°	12075	11159	9075	7628	7302
15°	13387	12022	8994	7113	6728
20°	15156	12698	8904	6767	6383
25°	17649	13499	8789	6419	6114
30°	18632	14519	8644	6202	5964
35°	15408	15727	8433	6045	5838
40°	11398	16486	8128	5916	5751
45°	8962	15974	7685	5799	5627
50°	7588	14266	7187	5640	5605
55°	6757	12223	6693	5460	5627
60°	6131	10360	6145	5238	5747
65°	5684	8856	5632	4970	5910
70°	5106	7572	5041	4642	5945
75°	4355	6407	4427	4243	5866
80°	3565	5178	3626	3692	5472
85°	2455	3637	2577	2919	4648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15974 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.4
10°-20°	369.0	10.1
20°-30°	599.9	16.5
30°-40°	729.8	20.0
40°-50°	667.8	18.3
50°-60°	534.5	14.7
60°-70°	372.2	10.2
70°-80°	197.8	5.4
80°-90°	48.6	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°	1092.3	30.0
0°-40°	1822.1	50.0
0°-60°	3024.4	83.0
0°-90°	3643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3643.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1278	1278	1278	1278	1278	
5°	1479	1405	1276	1161	1134	147
15°	1819	1634	1222	967	914	522
25°	2251	1721	1121	818	780	1028
35°	1776	1813	972	697	673	1101
45°	892	1589	765	577	560	703
55°	545	986	540	441	454	492
65°	338	527	335	296	351	333
75°	159	233	161	154	214	171
85°	30	45	32	36	57	39
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°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2
2.5°	1368.4	1362.7	1361.2	1361.7	1358.6	1356.0	1349.8	1341.5	1335.8	1328.5	1326.4
5°	1479.4	1465.4	1467.9	1463.8	1457.1	1448.3	1440.5	1428.0	1416.1	1404.7	1389.7
7.5°	1588.2	1585.6	1578.4	1577.3	1566.4	1551.4	1535.9	1518.7	1493.3	1475.7	1455.5
10°	1673.2	1678.4	1668.0	1668.5	1649.4	1634.3	1620.9	1598.6	1570.1	1546.2	1516.7
12.5°	1741.6	1743.7	1742.2	1735.4	1723.0	1697.6	1684.6	1661.3	1630.2	1597.5	1574.7
15°	1819.4	1813.7	1804.9	1796.6	1778.4	1760.3	1733.3	1705.9	1666.5	1633.8	1600.6
17.5°	1897.1	1896.1	1885.2	1867.6	1844.8	1820.9	1780.5	1745.3	1703.3	1660.3	1618.8
20°	2003.9	1998.2	1982.1	1961.9	1919.9	1886.3	1836.0	1787.8	1732.8	1678.9	1630.7
22.5°	2137.7	2119.0	2102.9	2071.8	2023.6	1965.0	1908.5	1838.6	1761.9	1698.6	1638.5
25°	2250.6	2242.4	2225.3	2190.5	2135.6	2065.1	1981.1	1901.8	1805.4	1721.4	1643.2
27.5°	2319.1	2315.4	2305.1	2272.4	2226.8	2156.8	2067.2	1966.1	1856.7	1743.2	1649.4
30°	2270.3	2270.9	2276.6	2272.9	2252.7	2207.6	2127.8	2026.2	1899.7	1769.1	1650.9
32.5°	2060.9	2074.9	2119.5	2140.8	2169.3	2178.6	2142.8	2058.3	1936.0	1795.0	1656.1
35°	1775.8	1810.1	1840.1	1902.3	1976.4	2037.1	2072.3	2044.9	1951.0	1812.6	1658.7
37.5°	1507.3	1504.8	1551.4	1618.8	1697.6	1800.7	1900.8	1955.7	1925.1	1809.0	1654.0
40°	1228.5	1252.3	1281.3	1341.0	1433.2	1560.2	1679.4	1797.1	1839.6	1776.9	1635.9
42.5°	1037.7	1048.6	1077.6	1124.3	1190.6	1320.2	1437.9	1589.2	1698.1	1705.4	1596.0
45°	891.6	903.5	911.8	957.9	1019.6	1106.7	1227.4	1379.8	1526.0	1589.2	1531.2
47.5°	774.4	781.1	799.3	827.3	867.7	944.9	1041.4	1179.8	1338.9	1461.7	1442.0
50°	686.3	691.5	706.0	721.5	754.7	811.7	889.5	1003.0	1155.9	1290.2	1334.2
52.5°	608.5	615.3	622.5	637.6	668.1	706.5	769.7	858.4	1000.4	1137.8	1207.7
55°	545.3	547.9	555.7	567.1	590.4	619.4	669.7	750.0	849.6	986.4	1082.8
57.5°	490.4	487.8	496.1	503.8	519.4	543.7	580.0	639.6	734.5	851.1	951.7
60°	431.3	433.9	440.1	446.3	457.2	478.4	506.9	554.6	624.1	728.8	831.4
62.5°	380.5	382.5	384.1	392.9	402.8	417.8	441.1	480.0	537.5	624.1	715.8
65°	338.0	334.3	336.4	342.6	350.4	362.8	384.6	413.1	456.1	526.6	602.8
67.5°	288.2	289.2	289.8	293.4	300.1	312.0	327.6	350.9	386.2	441.6	508.5
70°	245.7	246.2	246.7	249.8	255.5	262.3	273.2	291.3	321.4	364.4	416.7
72.5°	202.2	204.2	204.2	206.8	211.0	214.6	225.0	240.0	262.8	297.0	341.1
75°	158.6	162.2	163.3	166.4	170.0	171.1	178.8	190.8	205.3	233.3	268.0
77.5°	123.4	123.4	125.4	129.1	129.1	132.2	140.5	145.7	157.1	176.2	202.7
80°	87.1	88.6	88.6	89.7	91.7	94.3	98.0	102.6	112.5	126.5	140.5
82.5°	57.0	57.5	58.1	60.6	59.6	62.2	63.8	69.5	74.1	80.9	89.7
85°	30.1	30.1	30.6	32.1	33.7	34.2	35.2	37.8	41.5	44.6	49.8
87.5°	12.4	11.9	11.9	13.0	13.0	13.5	14.0	15.0	17.1	17.1	19.2
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°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2
2.5°	1324.9	1320.7	1313.5	1307.3	1299.5	1293.8	1288.1	1280.8	1273.6	1265.8	1257.5
5°	1377.8	1365.3	1351.3	1337.3	1320.7	1307.3	1292.7	1276.2	1262.2	1246.6	1230.0
7.5°	1438.4	1416.6	1392.3	1364.8	1338.9	1315.6	1291.7	1268.9	1248.2	1224.8	1202.0
10°	1497.0	1459.1	1428.6	1391.2	1354.4	1320.2	1287.6	1257.5	1227.4	1198.4	1170.4
12.5°	1536.9	1493.9	1455.5	1412.5	1369.5	1326.4	1283.4	1242.0	1206.2	1170.9	1141.4
15°	1564.4	1534.3	1483.5	1431.7	1375.2	1319.2	1270.5	1222.3	1179.8	1138.8	1103.6
17.5°	1581.5	1542.6	1492.8	1438.4	1376.2	1317.6	1259.1	1201.5	1152.8	1108.7	1068.8
20°	1586.1	1540.5	1488.7	1432.2	1370.0	1305.7	1239.9	1177.2	1124.3	1074.0	1033.6
22.5°	1581.5	1528.6	1473.1	1418.2	1352.9	1287.6	1218.6	1150.2	1089.6	1037.7	995.2
25°	1573.7	1509.9	1451.9	1387.1	1326.4	1264.2	1193.2	1120.7	1057.4	1003.5	955.8
27.5°	1563.8	1490.8	1419.2	1355.5	1289.6	1228.5	1163.2	1089.0	1023.2	964.1	919.5
30°	1552.4	1465.4	1386.1	1310.4	1248.2	1187.0	1123.3	1053.3	986.9	930.4	882.2
32.5°	1539.5	1438.4	1345.1	1263.7	1197.4	1140.9	1081.3	1014.4	949.1	888.4	846.5
35°	1521.3	1401.6	1301.0	1212.9	1144.0	1082.8	1030.5	971.9	907.1	850.6	807.1
37.5°	1500.1	1368.9	1256.5	1161.1	1085.9	1023.2	975.0	927.3	866.7	812.2	770.3
40°	1471.6	1329.6	1209.3	1106.1	1025.8	964.1	917.0	876.0	825.7	770.8	732.9
42.5°	1434.3	1286.0	1155.9	1046.0	968.3	902.4	858.4	821.1	778.0	730.3	693.0
45°	1391.8	1236.3	1096.3	988.5	904.0	841.3	798.2	764.6	731.9	689.4	654.7
47.5°	1325.4	1177.7	1042.4	923.2	840.2	779.6	739.2	707.0	682.7	649.0	614.8
50°	1246.6	1111.3	978.6	858.9	774.9	716.4	678.0	650.0	629.3	603.4	577.4
52.5°	1160.1	1036.7	908.7	796.7	712.7	657.3	616.8	591.9	578.5	557.7	537.5
55°	1059.0	952.7	833.5	731.4	649.0	592.5	557.7	540.1	525.1	514.7	496.6
57.5°	957.4	867.7	761.4	660.4	584.7	534.4	503.3	483.6	472.7	465.5	452.5
60°	846.5	776.0	678.5	590.9	523.5	475.8	448.4	432.3	422.5	418.3	409.5
62.5°	740.7	686.8	598.2	525.1	465.0	423.0	395.5	382.5	376.3	371.7	366.5
65°	636.5	594.0	524.0	455.6	404.8	367.0	345.2	334.9	330.2	325.0	324.5
67.5°	542.7	503.8	447.8	391.9	349.4	317.2	298.0	287.7	282.5	283.0	280.4
70°	450.4	420.4	374.8	329.1	292.9	267.5	249.3	242.6	240.5	240.0	237.9
72.5°	364.4	347.3	307.4	269.0	240.5	220.8	206.3	200.6	198.0	197.0	197.0
75°	288.7	276.3	242.1	213.0	191.3	175.2	165.4	161.2	157.6	159.6	158.1
77.5°	216.7	206.3	183.0	162.2	145.7	132.2	127.5	123.9	121.8	121.3	123.4
80°	152.4	146.2	131.7	115.1	102.6	94.9	91.7	88.6	87.1	86.0	87.1
82.5°	98.0	94.3	84.0	74.1	66.9	62.7	59.6	58.1	55.5	56.0	57.0
85°	53.4	52.4	45.6	42.5	35.8	35.2	33.2	31.6	32.1	31.1	32.7
87.5°	21.8	20.7	19.2	17.6	15.6	14.0	13.0	14.0	12.4	14.0	13.5
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°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2
2.5°	1253.4	1247.7	1240.9	1234.7	1225.4	1219.1	1216.0	1217.1	1213.4	1212.4	1211.9
5°	1220.2	1207.2	1194.8	1184.4	1173.5	1161.1	1152.3	1149.7	1148.7	1146.1	1140.4
7.5°	1186.0	1169.4	1153.3	1138.3	1122.7	1108.2	1099.4	1092.2	1088.0	1080.7	1079.2
10°	1149.7	1129.5	1112.4	1090.6	1071.9	1056.9	1045.5	1039.3	1035.7	1028.9	1023.2
12.5°	1115.0	1093.7	1067.3	1047.6	1027.9	1012.3	999.4	989.0	986.4	977.6	972.9
15°	1077.6	1051.7	1027.9	1005.1	986.4	966.7	958.9	949.6	940.3	932.5	930.9
17.5°	1041.9	1010.8	987.4	965.2	942.3	927.8	917.5	911.2	904.0	899.8	892.6
20°	998.8	973.4	947.5	926.8	907.1	894.7	880.7	875.0	869.8	859.9	856.8
22.5°	962.6	932.0	910.2	889.5	871.9	854.2	844.4	838.7	830.9	825.7	821.6
25°	924.7	899.3	871.9	851.1	836.1	818.5	811.7	804.5	797.7	793.1	788.9
27.5°	887.9	859.9	837.6	816.9	801.4	788.9	779.6	771.8	767.1	763.5	760.9
30°	849.6	823.6	802.9	783.7	766.1	755.7	746.9	743.8	738.6	736.0	731.9
32.5°	814.8	788.4	768.7	752.1	736.6	726.2	721.0	716.4	711.2	706.5	706.0
35°	775.4	752.6	734.5	716.4	704.9	696.7	691.0	686.3	682.1	678.5	676.4
37.5°	740.7	718.9	698.7	685.8	673.3	666.1	659.9	658.3	654.2	654.7	651.6
40°	703.4	683.7	666.6	653.6	645.3	637.6	633.4	628.2	625.6	626.2	623.6
42.5°	667.1	649.0	633.4	621.5	612.7	607.0	603.4	599.2	596.1	594.0	593.5
45°	630.3	614.2	601.3	589.4	582.1	576.9	572.3	567.1	564.5	563.4	562.9
47.5°	594.0	579.5	565.5	557.2	550.5	545.8	541.2	537.0	534.9	533.4	530.8
50°	556.7	542.2	532.3	522.0	516.3	510.1	504.9	502.8	500.2	499.7	502.3
52.5°	517.8	506.4	497.6	489.3	482.6	475.8	470.7	468.1	469.6	469.6	472.7
55°	481.0	469.1	460.8	454.1	446.8	440.6	435.4	435.4	435.4	438.5	442.7
57.5°	440.1	429.7	423.5	415.7	409.0	404.8	401.2	400.7	402.8	407.9	412.6
60°	398.6	391.3	384.6	378.4	371.7	368.5	368.0	367.0	370.1	375.3	385.1
62.5°	357.7	353.0	344.7	341.6	335.9	332.3	332.3	333.3	338.0	346.3	355.1
65°	318.3	311.5	305.3	302.2	298.6	295.5	295.5	299.6	306.3	314.1	325.0
67.5°	277.8	272.1	268.0	264.9	260.7	259.2	260.7	265.4	273.7	281.5	292.9
70°	234.3	233.3	229.6	225.5	223.4	223.4	225.0	230.1	236.4	248.3	258.1
72.5°	194.4	194.4	192.3	189.7	188.2	189.7	190.8	195.9	203.7	214.1	225.0
75°	158.1	156.5	155.0	153.9	153.4	154.5	156.0	160.2	169.5	179.3	188.2
77.5°	122.3	121.3	119.7	120.8	120.8	121.3	126.0	130.6	135.8	143.6	152.9
80°	88.1	88.6	87.1	86.6	89.2	90.2	93.8	97.4	101.1	109.9	116.6
82.5°	58.1	59.1	58.6	59.6	60.6	60.6	64.8	68.4	71.5	77.8	82.9
85°	33.2	33.7	33.7	35.2	36.3	35.8	39.4	41.5	43.0	47.7	50.8
87.5°	14.5	15.0	15.6	15.6	15.6	17.6	18.1	19.2	19.7	20.7	22.3
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: P243688

CATALOG NUMBER: S125DRP-H1090D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1278.2	1278.2	1278.2	1278.2
2.5°	1207.2	1206.7	1209.3	1210.9
5°	1136.7	1135.2	1133.1	1134.1
7.5°	1074.0	1069.9	1068.8	1068.8
10°	1018.5	1014.4	1013.4	1011.8
12.5°	971.4	965.2	962.6	960.0
15°	926.8	925.8	920.1	914.4
17.5°	885.8	887.4	881.7	879.1
20°	851.6	847.0	844.9	843.9
22.5°	816.9	813.3	813.3	809.7
25°	785.8	782.7	783.2	779.6
27.5°	756.8	756.3	755.7	754.7
30°	729.8	727.8	725.7	726.7
32.5°	703.9	700.8	699.2	698.7
35°	677.0	675.9	673.8	672.8
37.5°	650.5	651.0	648.4	647.9
40°	622.0	621.5	621.0	619.9
42.5°	591.9	590.4	591.4	590.9
45°	561.9	560.3	561.4	559.8
47.5°	532.3	533.4	533.4	533.9
50°	503.3	505.4	505.4	506.9
52.5°	476.4	480.5	480.5	480.0
55°	447.3	452.0	453.6	454.1
57.5°	419.9	424.5	429.2	430.2
60°	390.3	398.6	403.3	404.3
62.5°	363.9	371.7	377.9	378.4
65°	334.3	343.7	349.4	351.4
67.5°	304.3	311.5	319.3	322.4
70°	270.1	278.9	284.1	286.1
72.5°	234.3	244.1	250.9	251.9
75°	200.1	207.3	212.5	213.6
77.5°	161.2	168.5	173.1	174.2
80°	122.3	128.5	131.7	133.7
82.5°	86.6	90.7	92.3	94.3
85°	53.4	56.5	57.0	57.0
87.5°	23.3	23.8	23.8	24.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243688
 CATALOG NUMBER: S125DRP-H1090D935-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	18.50	20.07	18.87	20.39	20.70	18.24	19.81	18.61	20.13	20.44
	3H	19.86	21.27	20.23	21.60	21.96	19.67	21.08	20.05	21.41	21.77
	4H	20.34	21.66	20.73	22.01	22.39	20.16	21.48	20.55	21.83	22.21
	6H	20.64	21.87	21.06	22.24	22.63	20.47	21.70	20.88	22.07	22.46
	8H	20.72	21.89	21.15	22.28	22.68	20.55	21.72	20.98	22.11	22.51
	12H	20.75	21.87	21.18	22.26	22.69	20.59	21.71	21.02	22.09	22.52
4H	2H	19.89	21.22	20.29	21.56	21.94	19.31	20.63	19.71	20.98	21.36
	3H	21.25	22.35	21.66	22.75	23.15	20.96	22.07	21.37	22.47	22.87
	4H	21.75	22.75	22.18	23.16	23.60	21.52	22.52	21.96	22.93	23.37
	6H	22.11	22.97	22.56	23.42	23.87	21.90	22.77	22.36	23.21	23.67
	8H	22.20	23.01	22.66	23.45	23.92	22.00	22.81	22.46	23.25	23.72
	12H	22.25	22.97	22.73	23.45	23.92	22.05	22.78	22.53	23.26	23.73
8H	4H	22.21	23.02	22.67	23.46	23.93	21.88	22.69	22.34	23.13	23.60
	6H	22.64	23.31	23.13	23.80	24.28	22.38	23.05	22.87	23.54	24.02
	8H	22.76	23.37	23.28	23.88	24.36	22.52	23.13	23.04	23.64	24.12
	12H	22.85	23.38	23.36	23.88	24.44	22.62	23.16	23.13	23.65	24.21
12H	4H	22.25	22.98	22.73	23.45	23.92	21.90	22.62	22.38	23.10	23.57
	6H	22.71	23.31	23.22	23.82	24.31	22.43	23.03	22.94	23.54	24.03
	8H	22.88	23.42	23.39	23.91	24.47	22.63	23.16	23.14	23.65	24.22