

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: P242803

Luminaire Tested: S125DRP-S1090D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S1090D927-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

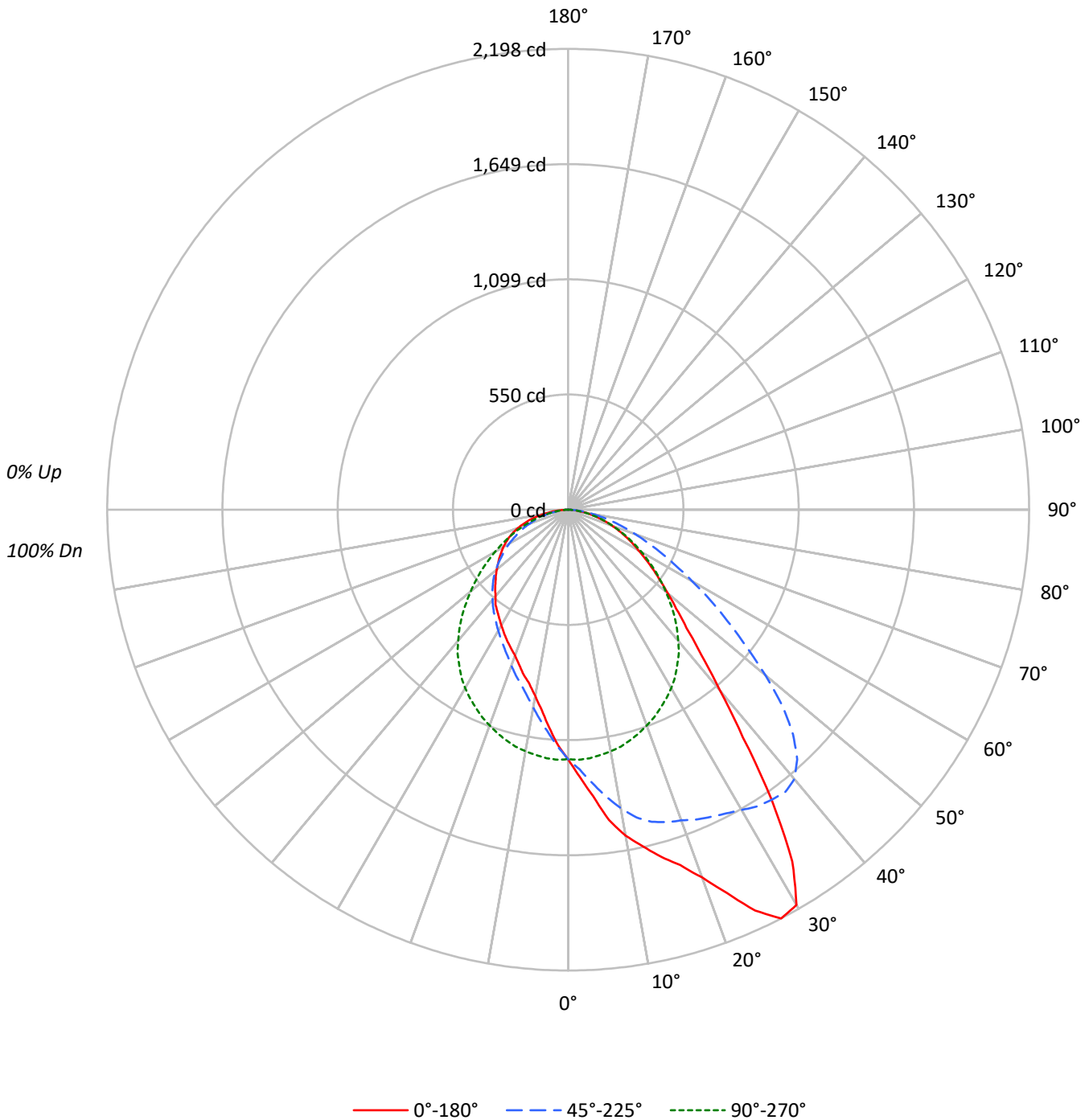
Lumens per Lamp: N/A
Luminaire Lumens: 3358.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	56	50	76	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	41					41			
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32					32			
9	58	45	37	31	57	44	37	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°	8458	8458	8458	8458	8458
5°	9794	9330	8486	7632	7431
10°	11395	10433	8442	6915	6510
15°	12614	11339	8381	6355	6006
20°	14119	11927	8282	5986	5601
25°	16541	12671	8171	5676	5402
30°	17866	13572	8062	5467	5231
35°	14690	14659	7857	5325	5118
40°	10441	15568	7573	5207	4995
45°	8021	15236	7189	5102	4924
50°	6847	13555	6713	4976	4915
55°	6097	11510	6246	4794	4957
60°	5500	9721	5737	4624	5083
65°	5079	8283	5223	4391	5215
70°	4617	7043	4692	4094	5291
75°	4078	6019	4133	3773	5242
80°	3430	4940	3369	3205	4797
85°	2716	3580	2430	2634	3874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15236 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.4
10°-20°	341.1	10.2
20°-30°	554.1	16.5
30°-40°	677.2	20.2
40°-50°	614.4	18.3
50°-60°	489.3	14.6
60°-70°	340.8	10.1
70°-80°	181.5	5.4
80°-90°	45.0	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°	1009.8	30.1
0°-40°	1687.0	50.2
0°-60°	2790.7	83.1
0°-90°	3358.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1190	1190	1190	1190	1190	
5°	1373	1308	1190	1070	1042	138
15°	1714	1541	1139	864	816	490
25°	2109	1616	1042	724	689	966
35°	1693	1690	906	614	590	1039
45°	798	1516	715	508	490	635
55°	492	929	504	387	400	442
65°	302	492	311	261	310	300
75°	148	219	150	137	191	160
85°	33	44	30	32	48	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°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1275.9	1273.8	1271.8	1267.8	1270.8	1262.2	1258.2	1251.1	1242.5	1239.5	1236.0
5°	1372.8	1375.4	1377.9	1367.3	1368.3	1361.2	1345.1	1331.9	1321.3	1307.7	1298.1
7.5°	1493.0	1485.5	1486.0	1479.4	1467.8	1458.2	1442.5	1420.8	1401.1	1378.9	1359.7
10°	1578.9	1579.4	1574.9	1566.8	1554.2	1545.1	1522.8	1501.6	1475.9	1445.6	1423.8
12.5°	1643.6	1646.1	1640.0	1628.4	1623.9	1600.6	1584.5	1558.2	1526.4	1503.7	1467.8
15°	1714.3	1708.7	1704.7	1691.0	1680.4	1659.2	1631.4	1605.2	1571.8	1541.0	1510.2
17.5°	1776.9	1781.5	1774.9	1764.8	1733.5	1708.7	1674.4	1641.0	1601.1	1562.7	1526.9
20°	1866.8	1870.9	1859.2	1837.5	1798.1	1773.4	1724.4	1677.9	1629.9	1576.9	1536.5
22.5°	1978.9	1973.9	1957.2	1921.4	1888.5	1837.5	1783.5	1724.4	1661.2	1599.6	1542.5
25°	2109.3	2088.0	2078.4	2037.5	1992.6	1925.4	1852.7	1769.8	1695.1	1615.8	1547.1
27.5°	2198.2	2189.6	2175.9	2142.6	2091.1	2014.8	1928.9	1829.9	1729.4	1632.5	1546.1
30°	2176.9	2177.9	2179.0	2169.9	2139.6	2085.5	2000.2	1891.6	1766.3	1653.7	1549.6
32.5°	1989.0	2011.8	2033.5	2061.8	2080.0	2080.5	2035.0	1939.5	1809.7	1677.9	1547.6
35°	1693.1	1698.6	1755.7	1812.3	1889.0	1948.6	1988.5	1945.1	1836.5	1689.5	1546.1
37.5°	1368.8	1396.6	1439.5	1503.1	1618.3	1712.3	1835.5	1877.9	1826.9	1699.1	1545.6
40°	1125.3	1150.6	1176.4	1241.5	1335.0	1455.2	1600.1	1723.9	1752.7	1677.9	1530.4
42.5°	937.4	956.1	985.4	1030.4	1104.6	1207.7	1344.5	1515.8	1633.0	1616.3	1498.6
45°	798.0	810.7	832.9	871.8	928.4	1011.7	1133.9	1310.7	1464.8	1515.8	1444.6
47.5°	699.0	699.5	717.7	745.5	788.4	865.2	956.6	1102.1	1268.3	1386.0	1369.3
50°	619.2	616.7	630.4	653.6	685.9	732.9	819.3	929.9	1088.0	1225.9	1264.2
52.5°	550.5	551.6	558.6	574.3	600.0	638.4	697.5	794.5	923.8	1066.2	1147.1
55°	492.0	489.9	499.5	511.2	530.8	557.1	603.6	679.9	789.5	928.9	1022.8
57.5°	435.4	440.9	445.0	453.1	470.2	488.4	529.8	588.4	678.8	802.6	902.1
60°	386.9	392.5	395.5	403.6	416.7	431.9	462.2	507.6	580.9	683.9	782.4
62.5°	343.5	347.5	348.0	355.1	365.2	379.8	402.1	438.4	492.5	579.3	675.3
65°	302.0	302.0	304.1	311.6	316.7	329.8	348.0	375.8	422.3	492.5	574.8
67.5°	261.6	264.2	263.7	267.2	271.7	282.9	296.5	319.7	356.6	409.6	477.8
70°	222.2	224.3	223.8	226.3	231.3	237.9	248.5	270.2	295.0	338.9	395.5
72.5°	186.9	187.4	185.9	189.4	191.9	197.5	209.6	218.7	241.4	276.8	320.7
75°	148.5	149.5	150.5	152.5	155.6	158.6	164.7	176.3	191.4	219.2	249.0
77.5°	118.2	115.7	118.7	118.2	119.7	122.2	127.8	134.4	147.5	166.2	190.9
80°	83.8	84.4	84.4	84.9	87.4	88.9	93.4	98.0	107.6	120.7	136.9
82.5°	55.6	57.1	56.1	57.1	59.1	60.1	62.1	65.7	70.2	79.8	90.4
85°	33.3	30.8	31.8	32.8	32.8	33.3	35.4	36.9	39.9	43.9	48.5
87.5°	12.1	13.1	13.6	13.6	14.1	14.1	16.2	16.2	17.7	19.2	21.2
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°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1232.9	1229.4	1225.3	1218.3	1209.7	1205.1	1198.1	1193.5	1184.4	1176.9	1168.8
5°	1286.5	1273.3	1261.2	1245.6	1228.4	1217.3	1204.1	1189.5	1174.3	1158.7	1141.5
7.5°	1340.0	1318.3	1294.5	1269.8	1245.6	1222.8	1201.6	1179.9	1160.2	1135.4	1114.7
10°	1394.0	1364.8	1333.4	1296.6	1260.7	1229.4	1197.6	1169.8	1141.5	1111.2	1084.4
12.5°	1448.1	1406.7	1359.2	1317.8	1272.8	1233.4	1194.5	1157.2	1119.8	1085.4	1053.1
15°	1467.8	1433.4	1392.5	1335.0	1286.5	1234.4	1184.9	1139.0	1096.0	1058.7	1019.3
17.5°	1487.0	1443.0	1399.6	1344.0	1280.9	1224.8	1168.8	1118.8	1071.3	1024.3	988.5
20°	1491.5	1446.1	1400.1	1346.1	1280.9	1214.2	1158.2	1095.0	1043.0	994.0	947.5
22.5°	1490.0	1437.0	1386.0	1329.9	1266.8	1206.7	1135.9	1071.3	1013.7	965.7	916.7
25°	1478.9	1423.8	1361.2	1305.2	1242.5	1177.4	1108.7	1042.0	984.4	929.4	881.4
27.5°	1472.3	1402.6	1333.9	1269.3	1209.2	1149.1	1082.4	1013.7	950.6	894.5	850.1
30°	1457.7	1379.4	1299.6	1231.4	1169.3	1111.2	1049.1	982.4	915.7	861.2	812.7
32.5°	1444.6	1350.1	1264.7	1189.0	1122.3	1066.2	1010.2	947.5	882.4	826.8	778.3
35°	1426.9	1321.3	1224.8	1141.0	1070.8	1012.7	964.7	905.6	845.5	792.0	745.5
37.5°	1406.2	1283.9	1181.9	1094.5	1018.3	957.7	912.2	866.2	806.1	753.6	712.2
40°	1380.9	1243.5	1133.9	1044.0	964.2	900.6	859.2	816.2	768.2	720.3	675.8
42.5°	1349.1	1207.2	1085.4	986.9	908.2	846.5	802.6	767.7	726.8	682.9	642.5
45°	1308.7	1161.7	1032.4	928.4	848.6	787.4	742.5	715.2	683.4	641.0	606.1
47.5°	1255.1	1110.2	976.8	869.3	786.9	730.4	687.4	660.7	637.4	604.1	571.3
50°	1178.9	1051.1	915.7	809.2	726.8	669.7	630.9	607.1	587.9	563.7	536.9
52.5°	1093.5	976.8	855.6	750.6	669.2	613.2	575.3	555.1	539.9	524.3	498.0
55°	1002.1	901.1	785.9	685.9	610.7	555.6	522.3	504.1	490.9	477.8	461.7
57.5°	903.6	821.8	716.2	622.8	553.1	501.6	470.2	451.6	440.9	433.9	423.8
60°	798.5	730.9	643.0	559.6	492.0	447.5	417.2	403.6	395.0	389.4	382.4
62.5°	701.1	648.5	568.7	494.5	437.4	396.0	369.7	356.6	348.5	346.5	340.9
65°	605.6	562.7	495.5	432.4	381.8	346.0	323.3	310.6	305.6	302.5	303.1
67.5°	509.6	481.9	425.8	370.2	328.8	297.0	278.3	268.7	266.2	261.6	261.6
70°	423.3	403.6	358.1	311.1	275.3	252.0	235.9	225.8	223.2	221.2	220.7
72.5°	347.0	330.3	292.4	257.1	225.8	206.1	193.4	188.4	183.9	182.8	182.8
75°	272.2	262.6	231.3	201.5	179.3	165.2	156.1	150.5	147.5	147.0	147.5
77.5°	205.6	196.5	174.8	152.5	137.9	126.8	118.2	116.7	112.6	113.1	112.1
80°	145.5	139.9	127.3	110.6	99.0	89.9	85.9	82.3	81.3	79.8	81.3
82.5°	95.5	89.4	81.8	72.7	63.6	59.1	55.1	54.5	54.0	53.5	53.5
85°	52.0	52.5	47.5	39.4	35.4	32.3	29.8	29.8	29.3	28.8	29.3
87.5°	22.2	21.2	19.2	17.7	15.2	13.6	13.1	13.6	12.1	11.6	12.1
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°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1164.2	1158.7	1154.1	1144.0	1138.5	1130.9	1124.8	1131.4	1124.3	1127.4	1122.8
5°	1132.9	1118.8	1108.7	1094.0	1081.4	1069.8	1061.2	1059.7	1055.6	1053.6	1047.6
7.5°	1095.5	1079.4	1062.7	1044.5	1029.4	1013.2	1003.6	994.5	989.0	981.9	976.3
10°	1063.2	1039.5	1019.3	996.0	975.8	958.2	944.0	936.9	930.4	920.8	917.2
12.5°	1023.3	998.6	972.8	947.5	928.4	908.2	896.5	884.9	880.9	869.8	869.3
15°	993.0	956.1	931.9	906.6	879.9	863.7	853.6	842.0	836.9	829.4	823.8
17.5°	955.6	922.3	892.0	866.2	842.0	828.9	815.7	807.6	799.1	793.5	784.4
20°	914.2	882.9	852.6	824.8	807.1	791.5	781.4	773.8	764.7	762.2	753.1
22.5°	879.4	844.0	815.2	793.0	773.3	755.1	744.0	739.5	733.9	724.8	724.8
25°	841.0	805.1	780.4	757.1	740.0	723.8	716.2	709.7	703.6	698.0	696.0
27.5°	808.6	776.8	746.5	725.3	710.7	695.5	688.9	680.4	675.8	671.3	665.2
30°	774.3	741.5	715.7	695.5	679.3	666.2	659.1	653.6	649.5	645.5	642.5
32.5°	738.9	709.1	684.4	664.7	648.5	639.4	633.4	629.8	625.3	620.3	616.2
35°	708.6	675.3	651.1	633.9	621.3	613.7	606.6	603.1	598.0	598.0	594.0
37.5°	672.8	643.5	621.8	606.1	595.0	587.9	579.8	577.8	574.3	572.3	570.8
40°	641.5	614.7	594.5	578.8	566.7	561.2	555.1	551.1	549.0	546.5	545.5
42.5°	609.1	583.9	564.7	550.5	540.4	535.9	530.3	527.8	523.3	519.7	519.2
45°	576.3	551.6	533.9	522.3	513.2	507.6	504.1	498.0	496.0	492.0	491.5
47.5°	546.0	521.8	504.1	494.5	486.4	482.4	476.8	470.2	467.7	465.2	464.7
50°	511.2	489.4	473.3	464.2	456.6	450.0	444.5	440.4	438.9	438.9	439.9
52.5°	475.8	458.1	445.0	433.4	426.3	419.2	414.2	412.2	409.6	412.7	414.7
55°	441.4	422.8	412.7	402.1	395.0	386.9	384.4	383.4	381.8	385.9	387.9
57.5°	404.6	391.9	379.8	368.7	362.7	357.6	353.6	353.1	356.1	357.1	363.2
60°	369.7	354.6	344.0	335.9	328.3	325.3	324.3	323.3	325.3	330.8	339.4
62.5°	331.3	319.7	308.1	302.5	297.5	291.9	291.9	293.0	297.5	304.1	312.7
65°	294.0	283.4	275.8	268.7	264.2	261.1	262.1	264.2	268.7	277.3	286.9
67.5°	255.6	248.5	241.4	234.9	230.3	230.8	231.3	233.9	239.4	249.5	258.6
70°	218.7	210.6	205.1	202.5	199.0	197.0	200.0	205.1	209.6	218.7	226.3
72.5°	181.8	175.3	171.2	169.7	168.7	167.2	167.7	173.2	179.8	188.9	198.0
75°	145.5	142.9	139.9	137.9	136.4	137.4	138.4	143.4	148.5	158.1	168.2
77.5°	112.6	109.6	107.6	107.1	106.1	106.6	109.1	113.1	118.2	125.3	133.3
80°	80.3	79.3	78.3	77.8	77.8	78.3	82.3	84.9	89.4	96.0	102.0
82.5°	53.0	52.5	52.5	52.5	53.0	53.0	55.1	58.6	62.1	66.7	71.7
85°	30.8	29.8	31.3	31.8	30.8	32.3	33.3	35.4	36.9	39.4	41.9
87.5°	12.6	13.6	13.1	13.6	13.6	14.6	14.1	16.2	17.2	18.2	17.7
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: P242803

CATALOG NUMBER: S125DRP-S1090D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1190.0	1190.0	1190.0	1190.0
2.5°	1119.8	1123.3	1120.3	1124.3
5°	1045.0	1040.5	1043.5	1041.5
7.5°	975.8	971.8	965.7	963.7
10°	911.7	906.1	905.6	902.1
12.5°	864.7	859.7	852.6	851.6
15°	820.8	816.7	813.2	816.2
17.5°	783.4	779.9	778.8	775.8
20°	748.5	746.0	747.0	740.5
22.5°	720.8	715.2	714.2	714.2
25°	691.5	688.9	686.4	688.9
27.5°	665.7	663.2	662.2	662.7
30°	642.5	637.4	637.9	637.4
32.5°	617.2	614.2	613.2	612.2
35°	592.5	592.5	589.9	589.9
37.5°	569.7	569.2	567.7	568.7
40°	543.5	543.0	541.5	538.4
42.5°	518.2	516.2	515.7	515.2
45°	491.5	491.5	490.4	489.9
47.5°	465.2	466.2	468.2	467.7
50°	442.0	442.5	444.0	444.5
52.5°	416.2	419.7	421.8	421.2
55°	392.5	396.0	399.5	400.0
57.5°	368.7	373.3	376.8	377.8
60°	344.5	351.0	355.6	357.6
62.5°	321.2	328.8	333.4	333.4
65°	295.5	303.1	307.1	310.1
67.5°	268.7	276.3	280.3	282.9
70°	238.9	246.5	252.5	254.6
72.5°	209.6	216.2	220.7	223.2
75°	174.8	183.9	188.4	190.9
77.5°	141.4	150.5	153.0	154.6
80°	108.1	113.1	116.7	117.2
82.5°	76.8	80.8	81.3	82.8
85°	45.5	47.5	48.0	47.5
87.5°	18.7	18.2	18.2	19.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242803
 CATALOG NUMBER: S125DRP-S1090D927-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	18.07	19.64	18.44	19.96	20.27	18.05	19.62	18.41	19.93	20.24
	3H	19.44	20.85	19.82	21.18	21.54	19.48	20.89	19.85	21.21	21.57
	4H	19.94	21.26	20.34	21.61	21.99	19.96	21.29	20.36	21.64	22.01
	6H	20.27	21.50	20.69	21.87	22.26	20.28	21.50	20.69	21.87	22.26
	8H	20.37	21.53	20.79	21.92	22.32	20.36	21.53	20.78	21.92	22.32
	12H	20.41	21.53	20.84	21.91	22.34	20.40	21.52	20.83	21.90	22.33
4H	2H	19.58	20.91	19.98	21.25	21.63	19.13	20.45	19.52	20.80	21.18
	3H	20.93	22.03	21.34	22.43	22.83	20.79	21.89	21.20	22.29	22.69
	4H	21.43	22.43	21.87	22.84	23.28	21.34	22.34	21.77	22.75	23.19
	6H	21.81	22.67	22.26	23.11	23.57	21.72	22.58	22.17	23.02	23.48
	8H	21.91	22.72	22.37	23.16	23.63	21.81	22.62	22.27	23.07	23.53
	12H	21.97	22.70	22.45	23.18	23.65	21.87	22.59	22.35	23.07	23.54
8H	4H	21.92	22.73	22.38	23.17	23.64	21.68	22.49	22.15	22.94	23.40
	6H	22.37	23.04	22.86	23.53	24.01	22.19	22.86	22.68	23.35	23.82
	8H	22.51	23.11	23.02	23.62	24.11	22.33	22.93	22.84	23.44	23.93
	12H	22.62	23.15	23.12	23.64	24.20	22.43	22.96	22.94	23.45	24.02
12H	4H	21.96	22.69	22.45	23.17	23.64	21.70	22.43	22.18	22.90	23.37
	6H	22.45	23.05	22.96	23.56	24.05	22.23	22.84	22.74	23.34	23.83
	8H	22.64	23.18	23.15	23.67	24.23	22.44	22.97	22.95	23.46	24.03