

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: P243329

Luminaire Tested: S123DRP-H1000D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-59)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-H1000D835-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

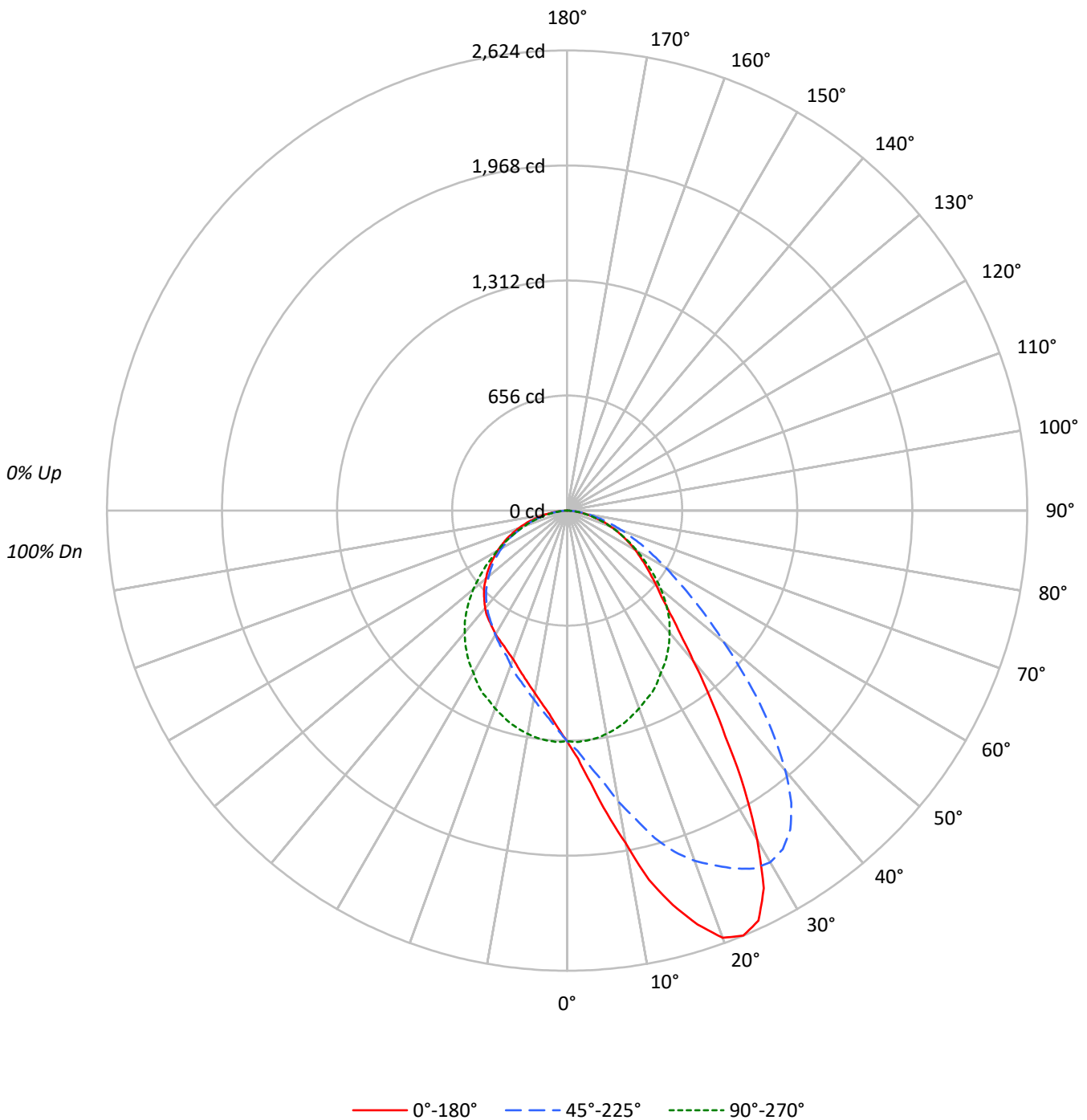
Lumens per Lamp: N/A
Luminaire Lumens: 3962.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46					46			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33					33			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15937	15937	15937	15937	15937
5°	18986	17756	16012	14482	14152
10°	23711	20739	15916	13448	13011
15°	29221	24264	15744	12684	12207
20°	33437	27420	15492	12106	11617
25°	34508	30120	15322	11682	11400
30°	30316	32423	14957	11450	11408
35°	23267	32844	14734	11304	11421
40°	17698	30654	14374	11269	11507
45°	14242	26584	13911	11207	11495
50°	12533	21989	13168	11011	11397
55°	11551	18396	12200	10839	11323
60°	10887	15704	11164	10478	11091
65°	10119	13641	10205	10067	10879
70°	9260	11883	9154	9260	10412
75°	8233	10149	7980	8289	9699
80°	6890	8362	6596	7099	8488
85°	4854	6189	4770	5354	6370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 29844 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.3
10°-20°	415.3	10.5
20°-30°	685.9	17.3
30°-40°	785.1	19.8
40°-50°	711.4	18.0
50°-60°	574.8	14.5
60°-70°	400.5	10.1
70°-80°	210.0	5.3
80°-90°	50.1	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°	1230.6	31.1
0°-40°	2015.6	50.9
0°-60°	3301.9	83.3
0°-90°	3962.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1315	1315	1315	1315	1315	
5°	1560	1459	1316	1190	1163	161
15°	2329	1934	1255	1011	973	663
25°	2580	2252	1146	874	852	1153
35°	1572	2220	996	764	772	996
45°	831	1551	812	654	671	655
55°	547	870	577	513	536	491
65°	353	476	356	351	379	350
75°	176	217	170	177	207	188
85°	35	44	34	38	46	45
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°	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8
2.5°	1415.9	1418.9	1414.1	1417.1	1409.9	1405.7	1399.1	1396.1	1381.6	1371.4	1367.8
5°	1560.4	1560.4	1561.6	1554.4	1546.0	1530.9	1511.0	1498.4	1483.9	1459.3	1446.6
7.5°	1742.2	1733.2	1727.2	1713.9	1702.5	1677.8	1656.1	1630.2	1596.5	1555.6	1533.9
10°	1926.4	1936.1	1930.0	1916.2	1886.7	1846.4	1814.4	1777.1	1724.7	1685.0	1628.4
12.5°	2156.4	2143.7	2134.1	2113.0	2080.5	2037.8	1988.4	1933.0	1865.6	1800.0	1736.8
15°	2328.6	2330.4	2329.8	2302.1	2270.2	2212.4	2166.6	2074.5	1989.0	1933.6	1828.9
17.5°	2474.2	2482.1	2473.0	2431.5	2403.2	2368.9	2310.5	2208.2	2130.5	2040.8	1925.2
20°	2592.2	2593.4	2579.0	2548.3	2515.8	2477.3	2400.2	2321.9	2246.1	2125.7	2015.5
22.5°	2623.5	2626.6	2623.5	2610.3	2583.8	2542.9	2485.1	2412.8	2317.1	2188.9	2086.6
25°	2580.2	2578.4	2588.6	2580.8	2579.6	2566.4	2528.4	2470.0	2375.5	2252.1	2122.1
27.5°	2428.5	2415.9	2441.7	2475.5	2480.3	2501.3	2501.9	2474.9	2406.8	2301.5	2160.0
30°	2166.0	2178.1	2190.7	2261.1	2300.3	2355.1	2402.6	2420.1	2394.2	2316.5	2184.1
32.5°	1880.7	1919.2	1954.7	2003.5	2060.7	2153.4	2228.6	2294.9	2323.1	2288.8	2184.1
35°	1572.4	1592.9	1648.9	1710.9	1793.4	1865.6	2014.9	2111.2	2197.3	2219.6	2156.4
37.5°	1331.6	1350.3	1369.6	1417.7	1510.4	1630.8	1754.2	1880.7	2008.3	2099.8	2096.2
40°	1118.5	1122.7	1139.6	1181.1	1258.2	1365.4	1494.8	1647.1	1812.6	1937.3	1989.6
42.5°	954.8	954.8	975.9	1024.0	1068.6	1146.8	1272.0	1406.3	1587.5	1747.6	1859.6
45°	830.8	832.0	848.8	883.1	918.1	979.5	1072.2	1198.6	1385.2	1550.8	1706.7
47.5°	729.6	741.1	750.7	768.8	803.7	857.9	925.3	1033.0	1166.1	1346.7	1528.5
50°	664.6	667.0	674.2	685.1	712.2	747.7	806.1	888.0	1006.0	1166.1	1349.7
52.5°	600.8	600.8	608.0	621.3	636.9	665.8	708.0	776.0	864.5	1009.6	1174.5
55°	546.6	548.4	549.6	560.5	573.7	595.4	628.5	673.0	754.3	870.5	1014.4
57.5°	493.6	500.3	498.5	506.9	516.5	532.2	555.7	594.2	656.2	744.7	874.1
60°	449.1	447.9	450.9	454.5	461.1	472.0	493.6	521.9	573.7	647.8	753.7
62.5°	398.5	397.3	400.9	405.2	411.2	420.2	435.9	457.5	498.5	553.8	646.0
65°	352.8	351.6	353.4	355.8	362.4	369.6	381.7	399.7	426.8	475.6	546.0
67.5°	307.0	307.0	308.2	310.6	314.8	320.3	329.9	340.7	367.8	400.3	455.7
70°	261.3	261.9	261.9	264.3	267.9	272.1	279.9	289.6	306.4	335.3	379.9
72.5°	221.5	221.5	220.3	221.5	223.9	225.8	230.6	239.6	252.2	273.3	307.0
75°	175.8	178.8	178.2	177.6	179.4	182.4	186.6	193.8	201.7	216.7	242.0
77.5°	134.8	136.7	136.7	137.3	139.1	141.5	142.7	149.9	157.1	166.2	184.8
80°	98.7	99.9	98.7	99.3	100.5	102.9	105.4	106.6	112.0	119.8	128.8
82.5°	66.2	64.4	66.8	66.2	67.4	68.0	69.2	69.8	73.4	78.3	84.3
85°	34.9	37.9	37.3	38.5	37.3	37.9	38.5	40.9	41.5	44.5	48.2
87.5°	13.2	14.4	14.4	14.4	14.4	14.4	15.7	16.3	17.5	18.1	19.3
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°	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8
2.5°	1370.2	1364.7	1356.9	1348.5	1339.5	1330.4	1326.2	1320.8	1310.0	1299.1	1290.7
5°	1436.4	1421.3	1400.9	1385.8	1364.1	1343.7	1327.4	1316.0	1298.5	1277.5	1263.6
7.5°	1510.4	1483.3	1450.8	1417.7	1385.2	1354.5	1329.2	1307.6	1280.5	1254.6	1233.5
10°	1597.7	1545.4	1500.2	1452.0	1403.9	1360.5	1324.4	1293.1	1258.2	1226.9	1201.0
12.5°	1674.8	1614.0	1551.4	1483.3	1418.3	1362.3	1316.0	1275.1	1232.9	1196.8	1170.3
15°	1759.7	1674.2	1587.5	1510.4	1431.6	1362.9	1302.1	1254.6	1206.4	1165.5	1134.8
17.5°	1857.2	1742.8	1633.8	1523.1	1453.2	1364.7	1290.1	1227.5	1178.1	1137.2	1097.5
20°	1915.0	1801.2	1667.6	1553.8	1438.2	1347.3	1264.2	1201.0	1143.2	1096.3	1063.7
22.5°	1946.3	1826.5	1686.8	1570.0	1435.2	1333.4	1245.0	1170.3	1108.3	1061.3	1024.6
25°	1990.2	1826.5	1697.1	1556.8	1440.0	1317.2	1217.3	1145.6	1080.6	1026.4	987.9
27.5°	2010.1	1842.7	1698.3	1531.5	1411.1	1286.5	1185.4	1109.5	1037.3	984.3	951.2
30°	2026.4	1845.8	1674.2	1511.6	1377.4	1252.2	1153.4	1068.6	1001.1	950.6	915.7
32.5°	2027.6	1837.9	1641.7	1474.3	1332.2	1211.8	1115.5	1035.5	965.0	911.4	877.1
35°	2016.7	1818.7	1604.3	1417.1	1279.9	1170.3	1074.0	995.7	924.1	872.9	838.0
37.5°	1989.0	1797.0	1569.4	1363.5	1217.9	1111.3	1029.4	954.8	883.7	832.6	803.7
40°	1930.0	1762.1	1523.7	1306.4	1155.3	1048.7	977.1	908.4	845.2	792.2	763.3
42.5°	1851.8	1709.7	1468.3	1245.6	1085.4	982.5	919.3	863.9	799.5	753.7	724.2
45°	1741.0	1638.7	1412.9	1181.7	1016.2	915.1	857.3	811.5	756.1	710.4	684.5
47.5°	1615.8	1553.2	1341.3	1110.1	943.3	848.2	793.4	756.7	709.8	670.6	644.7
50°	1474.9	1451.4	1262.4	1037.9	875.3	777.8	727.2	698.3	658.6	627.3	605.0
52.5°	1322.0	1336.5	1179.3	964.4	809.7	711.0	662.8	636.3	611.0	584.5	563.5
55°	1166.7	1201.0	1078.8	884.3	734.4	648.4	601.4	577.3	558.7	536.4	521.3
57.5°	1021.0	1074.6	974.6	798.9	665.2	582.7	538.2	517.1	503.3	491.2	477.4
60°	879.5	941.5	867.5	718.8	596.0	520.7	481.0	460.5	453.9	444.9	431.6
62.5°	754.3	817.5	762.1	636.3	526.2	461.7	425.6	408.8	399.1	396.1	388.3
65°	636.9	695.9	653.8	550.2	459.9	402.7	370.8	355.8	350.4	349.8	343.7
67.5°	535.2	592.4	553.8	466.6	390.1	343.7	319.7	307.6	302.2	302.8	298.6
70°	441.3	481.6	458.7	390.1	331.1	290.2	271.5	258.3	254.0	254.0	252.8
72.5°	354.0	385.9	368.4	316.1	269.7	238.4	222.1	214.3	210.7	210.1	210.7
75°	276.9	304.6	289.0	248.0	213.1	189.6	175.8	170.4	168.6	167.4	168.0
77.5°	207.1	224.5	214.9	188.4	159.5	143.3	136.7	131.2	129.4	130.0	131.2
80°	146.3	155.9	150.5	133.6	114.4	103.5	98.7	94.5	92.7	94.5	94.5
82.5°	92.7	99.9	95.1	84.3	74.6	67.4	62.6	61.4	60.8	59.6	61.4
85°	50.6	54.2	51.8	48.2	41.5	38.5	34.9	34.3	34.3	34.3	34.3
87.5°	19.9	22.3	19.3	19.3	18.1	15.1	15.1	14.4	13.8	14.4	14.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8
2.5°	1287.1	1279.3	1274.4	1267.8	1260.0	1249.8	1245.6	1249.8	1247.4	1243.1	1245.0
5°	1251.6	1241.3	1228.1	1217.3	1205.2	1190.2	1185.4	1182.9	1179.3	1177.5	1174.5
7.5°	1216.7	1201.6	1185.4	1170.3	1152.8	1139.6	1133.6	1129.4	1128.2	1119.1	1115.5
10°	1180.5	1161.9	1145.6	1125.2	1110.1	1092.6	1085.4	1080.6	1075.2	1069.2	1065.0
12.5°	1142.6	1123.9	1103.5	1084.2	1069.2	1049.9	1040.3	1034.8	1030.6	1026.4	1021.6
15°	1109.5	1090.8	1062.5	1048.1	1030.0	1010.8	1004.7	992.7	993.9	986.7	981.9
17.5°	1074.6	1046.9	1027.0	1005.4	992.1	978.3	966.8	954.2	952.4	947.0	945.2
20°	1035.5	1006.6	992.7	970.4	952.4	938.5	928.3	927.1	923.5	915.7	912.6
22.5°	996.9	973.4	954.2	933.7	917.5	899.4	894.6	896.4	889.8	888.0	881.3
25°	962.0	941.5	917.5	898.2	885.0	873.5	866.9	864.5	862.1	860.3	857.3
27.5°	924.7	903.0	882.5	866.9	854.2	846.4	842.2	836.8	836.2	836.2	835.0
30°	887.4	868.1	854.2	834.4	822.9	818.1	814.5	812.7	814.5	814.5	815.1
32.5°	853.0	834.4	818.1	804.3	792.8	789.2	788.6	788.6	791.0	791.0	792.8
35°	817.5	798.9	783.8	774.2	764.5	763.9	764.5	765.8	768.8	769.4	771.8
37.5°	779.0	764.5	753.1	741.1	738.7	739.9	741.1	742.3	743.5	748.3	748.3
40°	743.5	732.6	721.2	713.4	709.2	712.2	714.0	714.6	718.2	721.2	723.6
42.5°	708.6	698.3	689.3	682.7	680.9	683.3	685.1	686.9	690.5	692.9	697.1
45°	669.4	662.8	655.0	649.6	650.2	653.8	653.8	659.8	662.2	663.4	666.4
47.5°	633.3	626.1	620.7	618.3	617.7	620.7	622.5	627.3	628.5	632.7	635.1
50°	594.8	589.4	585.2	582.1	582.7	583.9	588.2	593.0	594.2	599.0	603.2
52.5°	554.4	549.6	546.0	547.2	549.0	549.0	553.2	556.3	559.3	562.9	567.1
55°	514.7	508.1	508.7	506.9	508.7	512.9	514.7	519.5	521.9	523.7	529.8
57.5°	471.4	470.2	468.4	466.6	470.2	472.0	475.0	478.0	482.2	484.6	488.8
60°	426.8	425.0	425.0	427.4	428.6	432.2	437.1	438.9	440.1	444.9	450.3
62.5°	385.9	384.1	383.5	387.1	387.1	390.7	392.5	395.5	400.3	402.1	409.4
65°	341.9	340.7	340.7	343.7	344.3	351.0	351.0	351.0	354.0	360.6	364.2
67.5°	296.2	296.8	298.6	300.4	302.8	304.6	305.2	308.8	313.6	317.9	325.1
70°	250.4	253.4	257.1	256.5	258.3	261.3	261.9	265.5	269.7	275.1	283.5
72.5°	209.5	211.3	214.9	214.9	217.3	219.1	222.1	224.5	230.0	234.8	238.4
75°	168.6	169.2	172.2	174.0	175.8	177.0	180.0	184.2	187.2	191.4	196.9
77.5°	132.4	131.2	133.6	134.2	135.5	137.9	140.3	144.5	146.9	151.7	153.5
80°	93.9	96.3	96.9	97.5	98.7	101.7	103.5	105.4	107.8	112.0	113.8
82.5°	62.0	63.2	65.0	65.6	66.8	67.4	68.0	71.0	72.8	74.0	80.1
85°	36.1	37.9	36.7	36.7	37.9	38.5	40.9	40.9	43.3	42.1	45.2
87.5°	15.7	15.1	15.1	15.7	15.1	14.4	16.3	16.3	15.7	16.3	16.3
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):

	165°	170°	175°	180°
0°	1314.8	1314.8	1314.8	1314.8
2.5°	1241.9	1241.9	1237.1	1238.9
5°	1168.5	1170.9	1164.9	1163.1
7.5°	1114.3	1111.9	1107.7	1107.7
10°	1061.3	1058.9	1057.1	1057.1
12.5°	1015.6	1013.2	1009.6	1012.6
15°	974.6	975.3	972.8	972.8
17.5°	943.3	937.9	936.1	935.5
20°	906.0	907.2	904.8	900.6
22.5°	882.5	879.5	877.1	876.5
25°	858.5	855.5	854.8	852.4
27.5°	834.4	835.0	833.2	833.2
30°	814.5	816.3	814.5	815.1
32.5°	794.6	794.6	794.6	792.2
35°	773.0	773.6	773.0	771.8
37.5°	750.7	750.7	751.3	752.5
40°	726.0	726.0	727.2	727.2
42.5°	696.5	699.5	701.3	698.3
45°	670.0	670.6	671.2	670.6
47.5°	640.5	638.7	639.3	640.5
50°	603.8	608.0	608.0	604.4
52.5°	568.3	569.5	571.9	571.9
55°	533.4	534.0	534.6	535.8
57.5°	493.6	494.2	494.2	493.6
60°	453.9	457.5	456.9	457.5
62.5°	411.2	416.6	418.4	417.8
65°	370.8	372.0	375.1	379.3
67.5°	328.1	331.1	335.9	334.7
70°	286.0	290.2	291.4	293.8
72.5°	243.8	249.2	250.4	251.6
75°	202.9	205.3	207.7	207.1
77.5°	158.3	161.9	166.2	163.7
80°	118.6	119.2	122.8	121.6
82.5°	78.3	83.1	83.1	80.7
85°	45.8	45.8	45.8	45.8
87.5°	15.7	15.1	16.3	15.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243329

CATALOG NUMBER: S123DRP-H1000D835-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	20.02	21.58	20.38	21.89	22.21	20.55	22.11	20.91	22.42	22.74
	3H	21.54	22.94	21.91	23.27	23.63	21.89	23.29	22.26	23.62	23.98
	4H	22.08	23.40	22.48	23.75	24.13	22.34	23.66	22.74	24.01	24.39
	6H	22.44	23.66	22.86	24.03	24.42	22.64	23.86	23.06	24.23	24.62
	8H	22.54	23.70	22.97	24.09	24.49	22.72	23.88	23.14	24.27	24.67
	12H	22.59	23.71	23.02	24.09	24.52	22.76	23.87	23.19	24.25	24.68
4H	2H	21.18	22.50	21.58	22.85	23.22	21.34	22.66	21.74	23.01	23.38
	3H	22.74	23.84	23.15	24.23	24.64	23.13	24.23	23.54	24.63	25.03
	4H	23.33	24.32	23.77	24.74	25.18	23.69	24.68	24.13	25.10	25.53
	6H	23.76	24.62	24.22	25.06	25.52	24.06	24.92	24.52	25.36	25.82
	8H	23.88	24.69	24.34	25.13	25.60	24.15	24.96	24.61	25.40	25.87
	12H	23.96	24.68	24.44	25.15	25.62	24.20	24.92	24.69	25.40	25.87
8H	4H	23.80	24.60	24.26	25.05	25.51	24.00	24.80	24.46	25.25	25.71
	6H	24.30	24.96	24.79	25.45	25.93	24.51	25.17	25.00	25.66	26.14
	8H	24.46	25.06	24.97	25.57	26.05	24.65	25.25	25.17	25.76	26.25
	12H	24.58	25.10	25.09	25.60	26.16	24.75	25.28	25.26	25.77	26.33
12H	4H	23.85	24.57	24.33	25.04	25.51	24.01	24.73	24.49	25.21	25.68
	6H	24.37	24.97	24.88	25.47	25.96	24.54	25.14	25.05	25.65	26.13
	8H	24.57	25.10	25.08	25.59	26.16	24.74	25.27	25.25	25.76	26.33