

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: P243318

Luminaire Tested: S123DRP-H775D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243318  
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-H775D927-X4F0-XX-UDD-A-W  
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

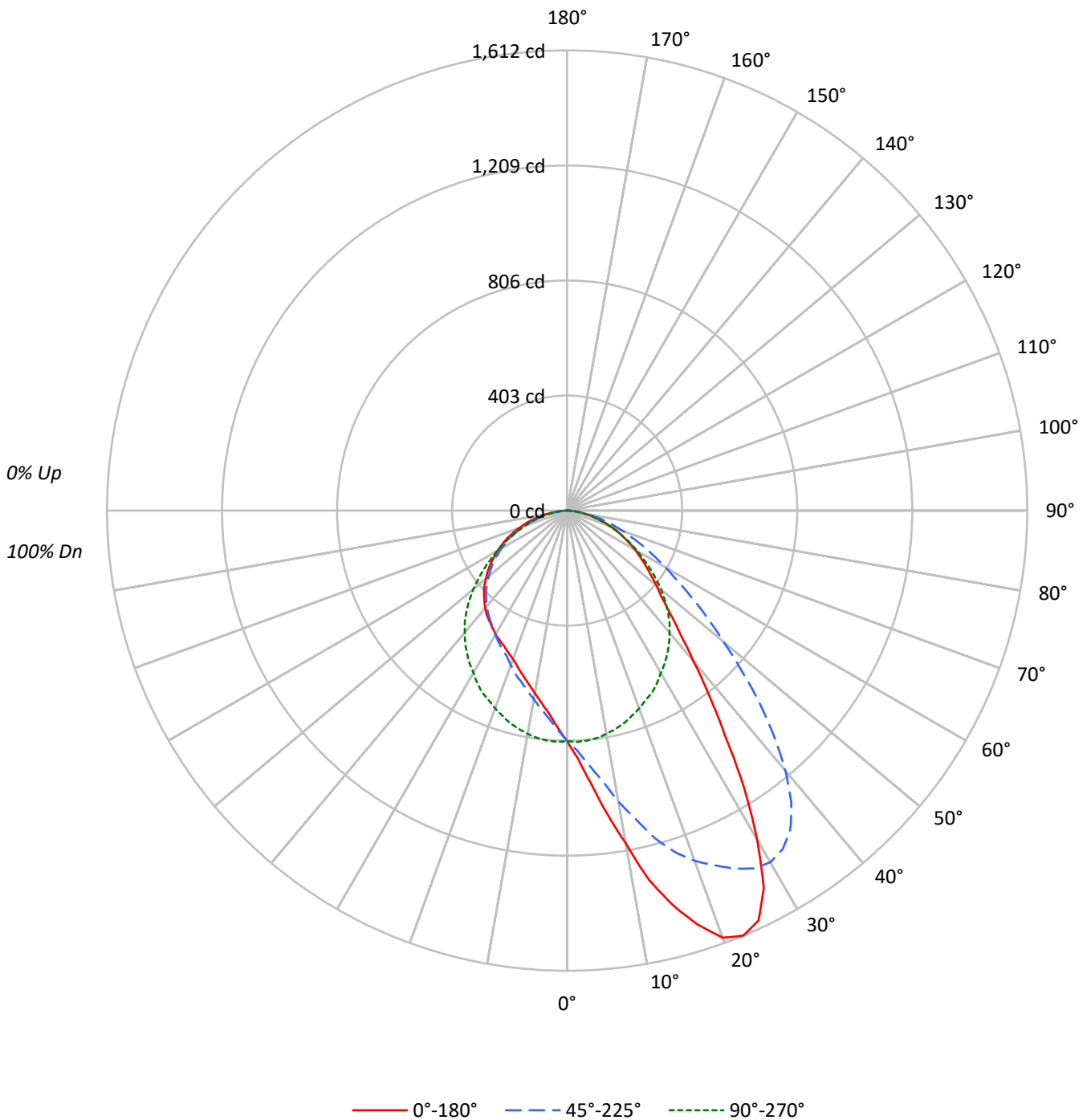
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2434.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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): 23.6  
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				
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49					46				
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34					33				
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28					27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	9789	9789	9789	9789	9789
5°	11663	10907	9836	8896	8692
10°	14564	12740	9776	8261	7993
15°	17950	14905	9671	7792	7499
20°	20539	16844	9516	7436	7136
25°	21197	18502	9411	7177	7003
30°	18622	19917	9187	7035	7008
35°	14293	20175	9050	6944	7015
40°	10872	18830	8829	6923	7068
45°	8748	16329	8545	6884	7063
50°	7699	13507	8090	6764	7002
55°	7096	11300	7494	6659	6955
60°	6688	9646	6858	6436	6812
65°	6215	8378	6267	6184	6683
70°	5688	7301	5621	5688	6397
75°	5058	6233	4903	5091	5957
80°	4230	5138	4056	4363	5214
85°	2976	3811	2934	3296	3908

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 18333 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	3.3
10°-20°	255.1	10.5
20°-30°	421.3	17.3
30°-40°	482.2	19.8
40°-50°	437.0	18.0
50°-60°	353.1	14.5
60°-70°	246.0	10.1
70°-80°	129.0	5.3
80°-90°	30.8	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°	755.9	31.1
0°-40°	1238.1	50.9
0°-60°	2028.2	83.3
0°-90°	2434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	808	808	808	808	808	
5°	958	896	808	731	714	99
15°	1430	1188	771	621	598	407
25°	1585	1383	704	537	524	708
35°	966	1363	612	469	474	612
45°	510	953	498	402	412	402
55°	336	535	355	315	329	302
65°	217	292	218	216	233	215
75°	108	133	105	109	127	115
85°	21	27	21	24	28	27
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°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6
2.5°	869.8	871.6	868.7	870.5	866.1	863.5	859.4	857.6	848.7	842.4	840.2
5°	958.5	958.5	959.3	954.8	949.6	940.4	928.2	920.4	911.5	896.4	888.6
7.5°	1070.2	1064.6	1060.9	1052.8	1045.8	1030.6	1017.3	1001.4	980.7	955.6	942.2
10°	1183.3	1189.3	1185.6	1177.1	1158.9	1134.2	1114.6	1091.6	1059.5	1035.1	1000.3
12.5°	1324.6	1316.8	1310.9	1298.0	1278.0	1251.8	1221.4	1187.4	1146.0	1105.7	1066.9
15°	1430.4	1431.5	1431.1	1414.1	1394.5	1359.0	1330.9	1274.3	1221.8	1187.8	1123.4
17.5°	1519.9	1524.7	1519.1	1493.6	1476.2	1455.1	1419.3	1356.4	1308.7	1253.6	1182.6
20°	1592.3	1593.1	1584.2	1565.3	1545.4	1521.7	1474.4	1426.3	1379.7	1305.8	1238.1
22.5°	1611.6	1613.4	1611.6	1603.4	1587.2	1562.0	1526.5	1482.1	1423.3	1344.6	1281.7
25°	1584.9	1583.8	1590.1	1585.3	1584.6	1576.4	1553.1	1517.3	1459.2	1383.4	1303.5
27.5°	1491.8	1484.0	1499.9	1520.6	1523.6	1536.5	1536.9	1520.2	1478.4	1413.7	1326.8
30°	1330.5	1337.9	1345.7	1389.0	1413.0	1446.6	1475.9	1486.6	1470.7	1423.0	1341.6
32.5°	1155.2	1178.9	1200.7	1230.7	1265.8	1322.8	1369.0	1409.7	1427.0	1406.0	1341.6
35°	965.9	978.5	1012.9	1051.0	1101.6	1146.0	1237.7	1296.9	1349.8	1363.4	1324.6
37.5°	818.0	829.5	841.3	870.9	927.8	1001.8	1077.6	1155.2	1233.6	1289.8	1287.6
40°	687.1	689.7	700.0	725.5	772.9	838.7	918.2	1011.8	1113.5	1190.0	1222.2
42.5°	586.5	586.5	599.4	629.0	656.4	704.5	781.4	863.8	975.2	1073.5	1142.3
45°	510.3	511.1	521.4	542.5	563.9	601.7	658.6	736.3	850.9	952.6	1048.4
47.5°	448.2	455.2	461.1	472.2	493.7	527.0	568.4	634.6	716.3	827.2	938.9
50°	408.3	409.7	414.2	420.8	437.5	459.3	495.2	545.4	617.9	716.3	829.1
52.5°	369.1	369.1	373.5	381.6	391.2	409.0	434.9	476.7	531.0	620.1	721.5
55°	335.8	336.9	337.6	344.3	352.4	365.7	386.1	413.4	463.4	534.7	623.1
57.5°	303.2	307.3	306.2	311.4	317.3	326.9	341.3	365.0	403.1	457.4	536.9
60°	275.9	275.1	277.0	279.2	283.3	289.9	303.2	320.6	352.4	397.9	463.0
62.5°	244.8	244.1	246.3	248.9	252.6	258.1	267.7	281.0	306.2	340.2	396.8
65°	216.7	216.0	217.1	218.5	222.6	227.1	234.5	245.5	262.2	292.1	335.4
67.5°	188.6	188.6	189.3	190.8	193.4	196.7	202.6	209.3	225.9	245.9	279.9
70°	160.5	160.9	160.9	162.3	164.6	167.1	172.0	177.9	188.2	206.0	233.3
72.5°	136.1	136.1	135.3	136.1	137.6	138.7	141.6	147.2	154.9	167.9	188.6
75°	108.0	109.8	109.5	109.1	110.2	112.0	114.6	119.1	123.9	133.1	148.7
77.5°	82.8	83.9	83.9	84.3	85.4	86.9	87.6	92.1	96.5	102.1	113.5
80°	60.6	61.4	60.6	61.0	61.8	63.2	64.7	65.5	68.8	73.6	79.1
82.5°	40.7	39.6	41.0	40.7	41.4	41.8	42.5	42.9	45.1	48.1	51.8
85°	21.4	23.3	22.9	23.7	22.9	23.3	23.7	25.1	25.5	27.4	29.6
87.5°	8.1	8.9	8.9	8.9	8.9	8.9	9.6	10.0	10.7	11.1	11.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6
2.5°	841.7	838.3	833.5	828.3	822.8	817.2	814.7	811.3	804.7	798.0	792.8
5°	882.3	873.1	860.5	851.3	838.0	825.4	815.4	808.4	797.7	784.7	776.2
7.5°	927.8	911.2	891.2	870.9	850.9	832.0	816.5	803.2	786.6	770.7	757.7
10°	981.4	949.3	921.5	891.9	862.4	835.7	813.6	794.3	772.9	753.6	737.7
12.5°	1028.8	991.4	953.0	911.2	871.2	836.8	808.4	783.2	757.3	735.2	718.9
15°	1080.9	1028.4	975.2	927.8	879.4	837.2	799.9	770.7	741.1	715.9	697.1
17.5°	1140.8	1070.6	1003.6	935.6	892.7	838.3	792.5	754.0	723.7	698.5	674.1
20°	1176.3	1106.4	1024.3	954.4	883.4	827.6	776.6	737.7	702.2	673.4	653.4
22.5°	1195.6	1122.0	1036.2	964.4	881.6	819.1	764.7	718.9	680.8	652.0	629.4
25°	1222.5	1122.0	1042.5	956.3	884.6	809.1	747.7	703.7	663.8	630.5	606.8
27.5°	1234.7	1131.9	1043.2	940.8	866.8	790.3	728.1	681.5	637.2	604.6	584.3
30°	1244.7	1133.8	1028.4	928.6	846.1	769.2	708.5	656.4	615.0	583.9	562.5
32.5°	1245.5	1129.0	1008.4	905.6	818.4	744.4	685.2	636.0	592.8	559.9	538.8
35°	1238.8	1117.2	985.5	870.5	786.2	718.9	659.7	611.6	567.6	536.2	514.8
37.5°	1221.8	1103.8	964.1	837.6	748.1	682.6	632.4	586.5	542.9	511.4	493.7
40°	1185.6	1082.4	936.0	802.5	709.6	644.2	600.2	558.0	519.2	486.7	468.9
42.5°	1137.5	1050.2	901.9	765.1	666.7	603.5	564.7	530.7	491.1	463.0	444.9
45°	1069.5	1006.6	867.9	725.9	624.2	562.1	526.6	498.5	464.5	436.4	420.5
47.5°	992.5	954.1	823.9	681.9	579.5	521.0	487.4	464.8	436.0	412.0	396.1
50°	906.0	891.6	775.5	637.5	537.7	477.8	446.7	429.0	404.6	385.3	371.6
52.5°	812.1	820.9	724.4	592.4	497.4	436.7	407.1	390.9	375.3	359.1	346.1
55°	716.7	737.7	662.7	543.2	451.2	398.3	369.4	354.6	343.2	329.5	320.2
57.5°	627.2	660.1	598.7	490.7	408.6	358.0	330.6	317.7	309.1	301.8	293.2
60°	540.3	578.4	532.9	441.5	366.1	319.9	295.5	282.9	278.8	273.3	265.1
62.5°	463.4	502.2	468.2	390.9	323.2	283.6	261.4	251.1	245.2	243.3	238.5
65°	391.2	427.5	401.6	338.0	282.5	247.4	227.8	218.5	215.2	214.9	211.2
67.5°	328.7	363.9	340.2	286.6	239.6	211.2	196.4	189.0	185.6	186.0	183.4
70°	271.1	295.8	281.8	239.6	203.4	178.2	166.8	158.6	156.1	156.1	155.3
72.5°	217.4	237.0	226.3	194.1	165.7	146.4	136.5	131.6	129.4	129.1	129.4
75°	170.1	187.1	177.5	152.4	130.9	116.5	108.0	104.7	103.5	102.8	103.2
77.5°	127.2	137.9	132.0	115.7	98.0	88.0	83.9	80.6	79.5	79.9	80.6
80°	89.9	95.8	92.4	82.1	70.3	63.6	60.6	58.1	56.9	58.1	58.1
82.5°	56.9	61.4	58.4	51.8	45.9	41.4	38.5	37.7	37.3	36.6	37.7
85°	31.1	33.3	31.8	29.6	25.5	23.7	21.4	21.1	21.1	21.1	21.1
87.5°	12.2	13.7	11.8	11.8	11.1	9.2	9.2	8.9	8.5	8.9	8.9
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°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6
2.5°	790.6	785.8	782.9	778.8	774.0	767.7	765.1	767.7	766.2	763.6	764.7
5°	768.8	762.5	754.4	747.7	740.3	731.1	728.1	726.6	724.4	723.3	721.5
7.5°	747.4	738.1	728.1	718.9	708.2	700.0	696.3	693.7	693.0	687.5	685.2
10°	725.2	713.7	703.7	691.1	681.9	671.2	666.7	663.8	660.5	656.8	654.2
12.5°	701.9	690.4	677.8	666.0	656.8	644.9	639.0	635.7	633.1	630.5	627.5
15°	681.5	670.1	652.7	643.8	632.7	620.9	617.2	609.8	610.5	606.1	603.1
17.5°	660.1	643.1	630.9	617.6	609.4	600.9	593.9	586.1	585.0	581.7	580.6
20°	636.0	618.3	609.8	596.1	585.0	576.5	570.2	569.5	567.3	562.5	560.6
22.5°	612.4	598.0	586.1	573.6	563.6	552.5	549.5	550.6	546.6	545.4	541.4
25°	590.9	578.4	563.6	551.7	543.6	536.6	532.5	531.0	529.5	528.4	526.6
27.5°	568.0	554.7	542.1	532.5	524.7	519.9	517.3	514.0	513.6	513.6	512.9
30°	545.1	533.2	524.7	512.5	505.5	502.6	500.3	499.2	500.3	500.3	500.7
32.5°	524.0	512.5	502.6	494.0	487.0	484.8	484.4	484.4	485.9	485.9	487.0
35°	502.2	490.7	481.5	475.6	469.6	469.3	469.6	470.4	472.2	472.6	474.1
37.5°	478.5	469.6	462.6	455.2	453.7	454.5	455.2	456.0	456.7	459.7	459.7
40°	456.7	450.0	443.0	438.2	435.6	437.5	438.6	438.9	441.2	443.0	444.5
42.5°	435.3	429.0	423.4	419.3	418.2	419.7	420.8	421.9	424.2	425.6	428.2
45°	411.2	407.1	402.3	399.0	399.4	401.6	401.6	405.3	406.8	407.5	409.4
47.5°	389.0	384.6	381.3	379.8	379.4	381.3	382.4	385.3	386.1	388.7	390.1
50°	365.4	362.0	359.4	357.6	358.0	358.7	361.3	364.2	365.0	367.9	370.5
52.5°	340.6	337.6	335.4	336.1	337.3	337.3	339.8	341.7	343.5	345.8	348.3
55°	316.2	312.1	312.5	311.4	312.5	315.1	316.2	319.1	320.6	321.7	325.4
57.5°	289.6	288.8	287.7	286.6	288.8	289.9	291.8	293.6	296.2	297.7	300.3
60°	262.2	261.1	261.1	262.6	263.3	265.5	268.5	269.6	270.3	273.3	276.6
62.5°	237.0	235.9	235.6	237.8	237.8	240.0	241.1	243.0	245.9	247.0	251.5
65°	210.0	209.3	209.3	211.2	211.5	215.6	215.6	215.6	217.4	221.5	223.7
67.5°	181.9	182.3	183.4	184.5	186.0	187.1	187.5	189.7	192.7	195.3	199.7
70°	153.8	155.7	157.9	157.5	158.6	160.5	160.9	163.1	165.7	169.0	174.2
72.5°	128.7	129.8	132.0	132.0	133.5	134.6	136.5	137.9	141.3	144.2	146.4
75°	103.5	103.9	105.8	106.9	108.0	108.7	110.6	113.2	115.0	117.6	120.9
77.5°	81.4	80.6	82.1	82.5	83.2	84.7	86.2	88.8	90.2	93.2	94.3
80°	57.7	59.2	59.5	59.9	60.6	62.5	63.6	64.7	66.2	68.8	69.9
82.5°	38.1	38.8	39.9	40.3	41.0	41.4	41.8	43.6	44.7	45.5	49.2
85°	22.2	23.3	22.6	22.6	23.3	23.7	25.1	25.1	26.6	25.9	27.7
87.5°	9.6	9.2	9.2	9.6	9.2	8.9	10.0	10.0	9.6	10.0	10.0
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: P243318

CATALOG NUMBER: S123DRP-H775D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	807.6	807.6	807.6	807.6
2.5°	762.9	762.9	759.9	761.0
5°	717.8	719.3	715.6	714.4
7.5°	684.5	683.0	680.4	680.4
10°	652.0	650.5	649.4	649.4
12.5°	623.8	622.4	620.1	622.0
15°	598.7	599.1	597.6	597.6
17.5°	579.5	576.1	575.0	574.7
20°	556.5	557.3	555.8	553.2
22.5°	542.1	540.3	538.8	538.4
25°	527.3	525.5	525.1	523.6
27.5°	512.5	512.9	511.8	511.8
30°	500.3	501.4	500.3	500.7
32.5°	488.1	488.1	488.1	486.7
35°	474.8	475.2	474.8	474.1
37.5°	461.1	461.1	461.5	462.2
40°	446.0	446.0	446.7	446.7
42.5°	427.9	429.7	430.8	429.0
45°	411.6	412.0	412.3	412.0
47.5°	393.5	392.4	392.7	393.5
50°	370.9	373.5	373.5	371.3
52.5°	349.1	349.8	351.3	351.3
55°	327.6	328.0	328.4	329.1
57.5°	303.2	303.6	303.6	303.2
60°	278.8	281.0	280.7	281.0
62.5°	252.6	255.9	257.0	256.6
65°	227.8	228.5	230.4	233.0
67.5°	201.5	203.4	206.3	205.6
70°	175.7	178.2	179.0	180.5
72.5°	149.8	153.1	153.8	154.6
75°	124.6	126.1	127.6	127.2
77.5°	97.3	99.5	102.1	100.6
80°	72.8	73.2	75.4	74.7
82.5°	48.1	51.0	51.0	49.6
85°	28.1	28.1	28.1	28.1
87.5°	9.6	9.2	10.0	9.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243318  
 CATALOG NUMBER: S123DRP-H775D927-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	18.32	19.88	18.69	20.20	20.51	18.85	20.41	19.22	20.73	21.04
	3H	19.84	21.25	20.22	21.57	21.94	20.19	21.60	20.57	21.92	22.29
	4H	20.39	21.71	20.79	22.06	22.43	20.65	21.97	21.05	22.32	22.69
	6H	20.75	21.97	21.16	22.34	22.73	20.95	22.17	21.36	22.54	22.93
	8H	20.85	22.01	21.27	22.40	22.80	21.03	22.19	21.45	22.58	22.98
	12H	20.90	22.01	21.33	22.40	22.82	21.06	22.18	21.49	22.56	22.99
4H	2H	19.49	20.81	19.89	21.15	21.53	19.65	20.97	20.05	21.31	21.69
	3H	21.05	22.14	21.46	22.54	22.94	21.44	22.53	21.85	22.93	23.33
	4H	21.64	22.63	22.07	23.05	23.48	22.00	22.99	22.43	23.40	23.84
	6H	22.07	22.93	22.52	23.37	23.83	22.37	23.23	22.82	23.67	24.13
	8H	22.19	22.99	22.65	23.44	23.90	22.46	23.26	22.92	23.71	24.17
	12H	22.26	22.98	22.74	23.46	23.93	22.51	23.23	22.99	23.71	24.18
8H	4H	22.10	22.91	22.57	23.35	23.82	22.30	23.11	22.77	23.55	24.02
	6H	22.60	23.27	23.10	23.76	24.24	22.81	23.48	23.31	23.97	24.45
	8H	22.77	23.36	23.28	23.87	24.36	22.96	23.56	23.47	24.07	24.55
	12H	22.88	23.41	23.39	23.90	24.47	23.06	23.59	23.57	24.08	24.64
12H	4H	22.15	22.87	22.63	23.35	23.82	22.32	23.04	22.80	23.52	23.99
	6H	22.67	23.27	23.19	23.78	24.27	22.85	23.45	23.36	23.95	24.44
	8H	22.88	23.41	23.39	23.90	24.46	23.05	23.58	23.56	24.07	24.63