

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1031381

Luminaire Tested: S123DIW-B1000D755UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031381
REPORT IS A COMBINATION OF REPORTS P990787 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D755UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

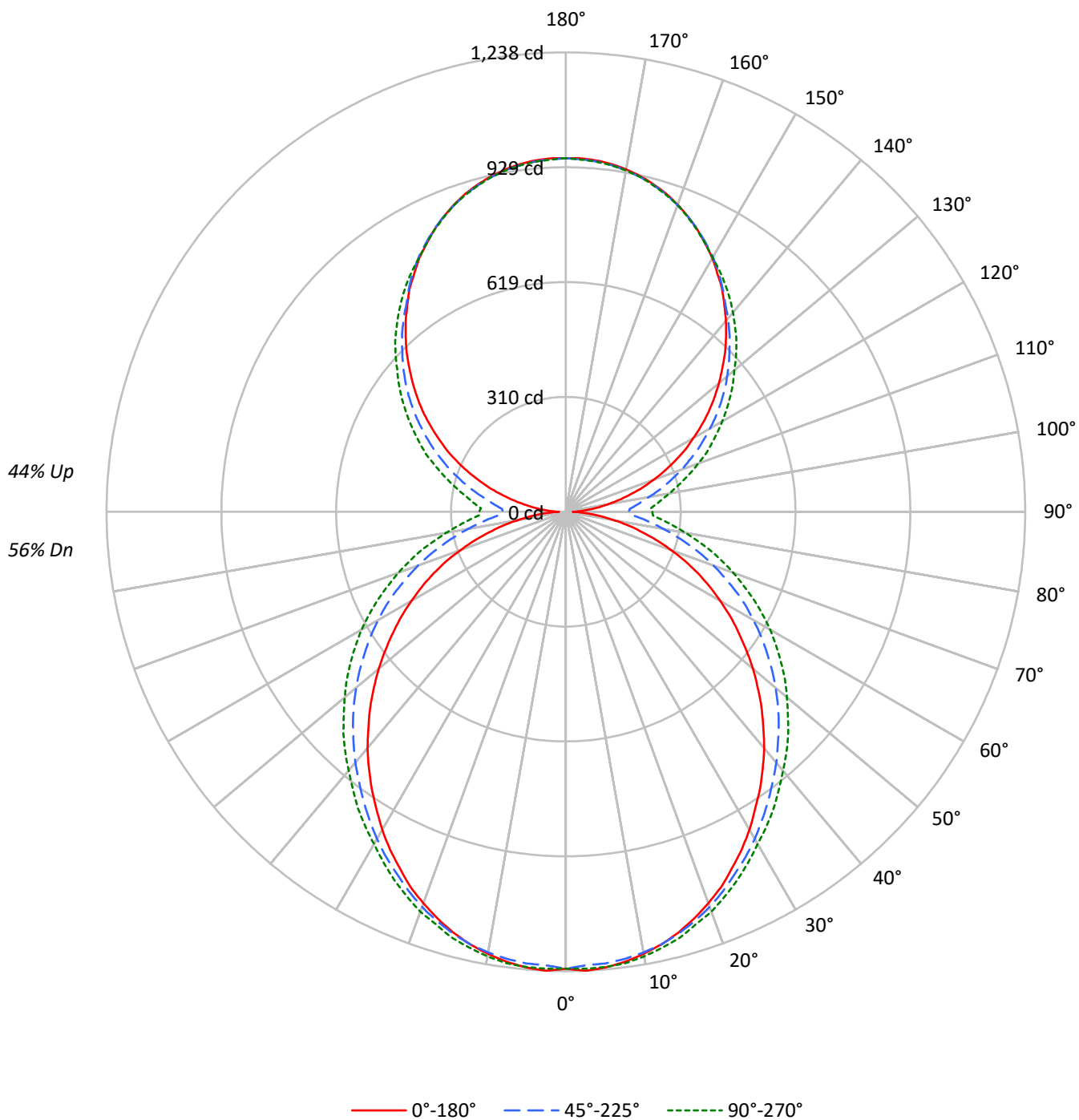
Lumens per Lamp: N/A
Luminaire Lumens: 6780.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87		74	74	74		62
1	98	93	89	85	91	86	83	79	74	71	69		63	61	59		53
2	89	81	74	68	82	75	69	64	64	60	56		55	51	48		46
3	81	70	63	56	74	66	59	53	56	51	47		48	44	40		40
4	74	62	54	47	68	58	50	45	50	44	39		42	38	34		36
5	68	55	47	40	62	52	44	38	45	38	34		38	33	30		32
6	62	50	41	35	57	46	39	33	40	34	29		34	29	26		29
7	57	45	36	31	53	42	34	29	36	30	26		31	26	23		26
8	53	41	32	27	49	38	31	26	33	27	23		28	24	20		24
9	50	37	29	24	46	35	28	23	30	24	20		26	21	18		22
10	46	34	26	21	43	32	25	20	28	22	18		24	20	16		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13254	13254	13254
5°	13289	12864	12854
10°	13165	12516	12420
15°	12991	12131	11960
20°	12743	11702	11467
25°	12439	11219	10956
30°	12127	10782	10442
35°	11778	10323	10023
40°	11445	9903	9581
45°	11075	9499	9217
50°	10708	9096	8821
55°	10304	8682	8458
60°	9909	8260	8084
65°	9500	7811	7650
70°	8888	7306	7200
75°	8114	6732	6735
80°	7210	6147	6207
85°	6311	5678	5827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.7
10°-20°	333.0	4.9
20°-30°	497.9	7.3
30°-40°	594.5	8.8
40°-50°	622.0	9.2
50°-60°	583.7	8.6
60°-70°	487.5	7.2
70°-80°	348.6	5.1
80°-90°	209.5	3.1
90°-100°	191.7	2.8
100°-110°	281.4	4.2
110°-120°	380.0	5.6
120°-130°	452.3	6.7
130°-140°	483.7	7.1
140°-150°	462.8	6.8
150°-160°	386.8	5.7
160°-170°	257.5	3.8
170°-180°	90.2	1.3
0°-30°	947.7	14.0
0°-40°	1542.2	22.7
0°-60°	2747.9	40.5
0°-90°	3793.6	56.0
90°-120°	853.1	12.6
90°-150°	2251.9	33.2
90°-180°	2986.0	44.0
0°-180°	6780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1233	1230	1222	1233	1231	117
15°	1174	1178	1176	1190	1188	331
25°	1060	1073	1077	1094	1094	488
35°	912	934	951	971	976	570
45°	746	778	812	837	848	575
55°	569	613	661	697	708	509
65°	393	445	504	544	558	388
75°	213	276	343	388	404	228
85°	66	133	204	250	263	68
90°	18	91	170	218	233	16
95°	59	116	188	233	246	60
105°	179	213	277	315	328	191
115°	325	343	390	423	433	322
125°	470	472	509	534	541	419
135°	607	610	624	645	650	467
145°	734	734	736	746	749	458
155°	839	839	840	843	838	386
165°	914	912	912	916	911	258
175°	950	948	948	952	947	90
180°	953	953	953	953	953	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1238.0	1233.9	1223.2	1233.9	1232.6
5°	1232.6	1229.9	1221.9	1232.6	1231.3
7.5°	1223.2	1223.2	1215.2	1228.6	1227.2
10°	1209.8	1212.5	1205.8	1219.2	1216.5
12.5°	1193.7	1197.7	1193.7	1205.8	1203.1
15°	1173.6	1177.6	1176.3	1189.7	1188.3
17.5°	1149.4	1157.5	1156.2	1168.2	1165.5
20°	1122.6	1130.7	1133.3	1145.4	1146.8
22.5°	1094.5	1102.5	1106.5	1122.6	1121.3
25°	1059.6	1073.0	1077.0	1094.5	1094.5
27.5°	1026.1	1040.8	1048.9	1063.6	1064.9
30°	989.8	1007.3	1018.0	1034.1	1034.1
32.5°	949.6	969.7	984.5	1001.9	1005.9
35°	912.0	933.5	950.9	971.1	976.4
37.5°	871.8	895.9	916.1	938.9	942.9
40°	831.6	855.7	882.5	905.3	910.7
42.5°	787.3	818.2	846.3	871.8	879.9
45°	745.7	777.9	811.5	836.9	847.7
47.5°	701.5	737.7	775.2	803.4	811.5
50°	658.5	696.1	737.7	768.5	777.9
52.5°	612.9	653.2	700.1	732.3	744.4
55°	568.7	612.9	661.2	697.4	708.2
57.5°	525.8	571.4	623.7	659.9	672.0
60°	480.2	528.4	583.4	621.0	635.7
62.5°	437.2	486.9	545.9	583.4	596.9
65°	393.0	445.3	504.3	544.5	558.0
67.5°	348.7	403.7	462.7	507.0	517.7
70°	301.8	359.5	423.8	466.8	480.2
72.5°	258.9	316.5	383.6	427.9	441.3
75°	213.3	276.3	343.4	387.6	403.7
77.5°	174.4	237.4	304.5	351.4	363.5
80°	132.8	198.5	268.2	313.9	327.3
82.5°	96.6	163.6	234.7	280.3	293.7
85°	65.7	132.8	203.9	249.5	262.9
87.5°	40.2	107.3	175.7	221.3	234.7
90°	18.1	91.4	169.6	218.2	233.1
92.5°	38.6	100.7	172.2	218.8	229.4
95°	59.0	116.5	188.2	232.8	246.2
97.5°	86.0	138.0	205.5	249.6	262.2
100°	113.9	161.3	226.7	267.9	282.8
102.5°	146.2	186.0	251.6	291.4	304.1
105°	179.1	212.8	277.2	314.7	328.3
107.5°	216.7	245.7	303.6	342.1	353.4
110°	251.2	276.9	332.0	369.9	379.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.7	308.2	359.2	396.5	408.6
115°	324.8	343.1	389.9	422.9	432.8
117.5°	363.0	374.4	418.5	450.7	459.3
120°	396.8	408.0	448.5	478.6	486.5
122.5°	433.5	439.1	479.2	506.5	513.6
125°	469.5	471.8	509.2	534.4	540.8
127.5°	504.0	507.2	539.2	561.5	567.9
130°	538.4	543.1	567.6	590.1	592.9
132.5°	571.5	577.5	596.1	616.5	622.1
135°	606.7	609.8	623.8	645.0	650.2
137.5°	638.9	641.2	652.9	670.6	675.1
140°	671.2	674.9	679.8	699.1	700.6
142.5°	701.9	704.3	705.8	722.4	725.4
145°	734.0	734.2	736.5	746.4	748.8
147.5°	760.4	763.4	765.7	769.7	770.6
150°	789.6	791.1	792.6	792.6	790.8
152.5°	813.6	815.8	816.6	818.1	814.3
155°	839.0	839.0	839.8	842.8	837.5
157.5°	860.7	860.0	860.7	863.7	859.2
160°	880.9	879.4	879.4	883.2	880.2
162.5°	898.9	896.6	897.4	901.1	895.9
165°	913.9	911.6	911.6	916.1	910.9
167.5°	926.6	923.6	924.3	928.8	924.3
170°	937.1	934.1	934.1	939.3	934.1
172.5°	945.3	942.3	942.3	946.8	941.6
175°	950.5	947.5	947.5	952.0	946.8
177.5°	953.5	950.5	950.5	955.0	949.8
180°	952.8	952.8	952.8	952.8	952.8

(END OF REPORT)