

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: P1031351

Luminaire Tested: S123DIW-B1000D460UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031351
REPORT IS A COMBINATION OF REPORTS P990721 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D460UB27-4F0-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

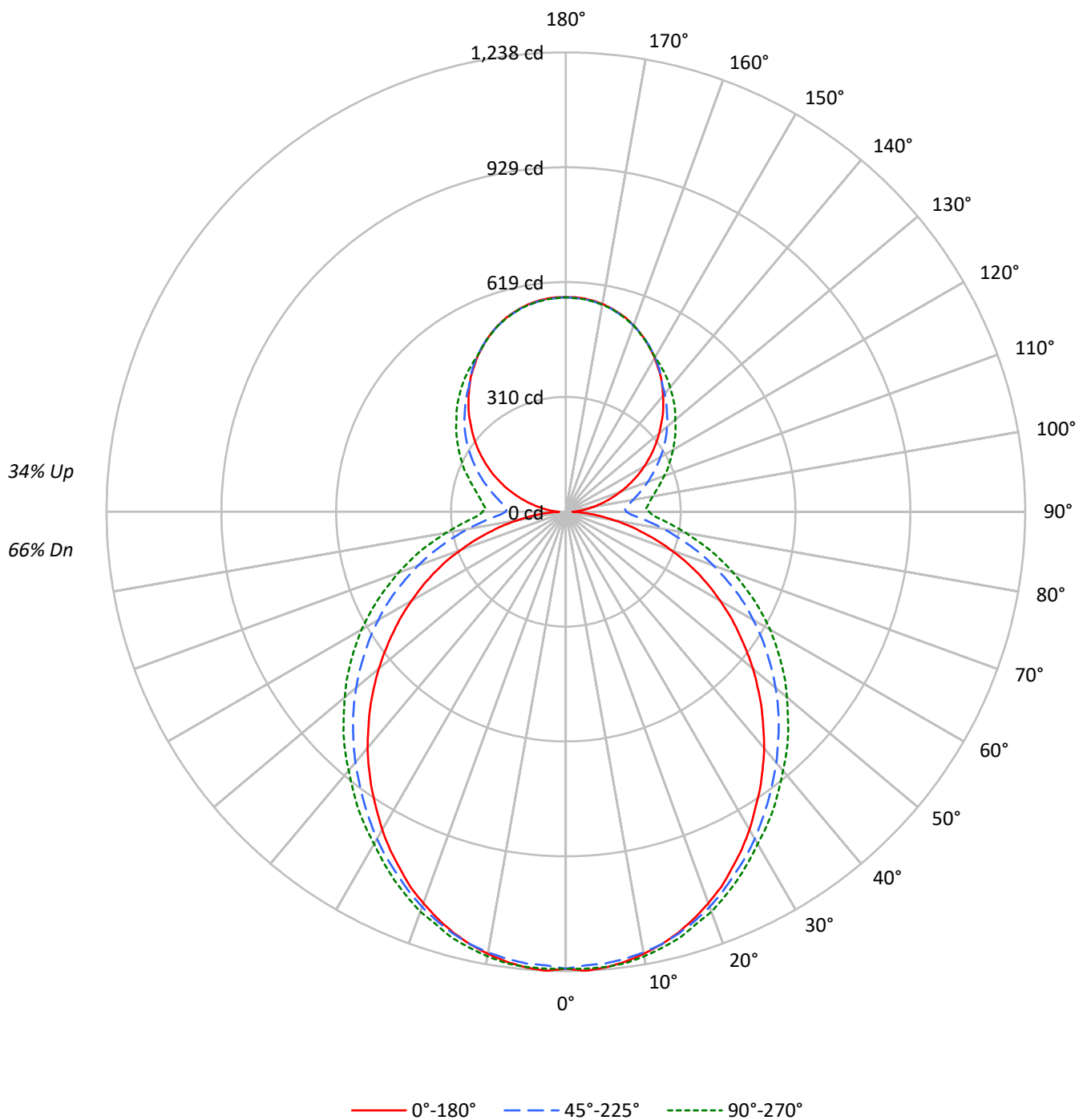
Lumens per Lamp: N/A
Luminaire Lumens: 5741.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	100	95	90	86	94	89	85	82	79	76	73	69	67	65	60	59	57
2	91	82	75	69	85	77	71	66	68	64	59	60	56	53	52	50	47
3	82	72	64	57	77	68	60	55	60	54	49	53	48	44	46	42	39
4	75	63	55	48	70	60	52	46	53	47	42	47	42	38	41	37	34
5	69	56	48	41	64	53	45	39	47	41	36	42	37	32	37	33	29
6	63	51	42	36	59	48	40	34	43	36	31	38	32	28	33	29	26
7	59	46	37	31	55	43	35	30	39	32	27	34	29	25	30	26	23
8	54	41	33	28	51	39	32	27	35	29	24	31	26	22	28	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	26	21	18
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	24	20	17

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	2.0
10°-20°	333.0	5.8
20°-30°	497.9	8.7
30°-40°	594.5	10.4
40°-50°	622.0	10.8
50°-60°	583.7	10.2
60°-70°	487.5	8.5
70°-80°	348.6	6.1
80°-90°	208.7	3.6
90°-100°	167.6	2.9
100°-110°	208.4	3.6
110°-120°	255.7	4.5
120°-130°	288.8	5.0
130°-140°	299.9	5.2
140°-150°	282.2	4.9
150°-160°	234.7	4.1
160°-170°	156.2	2.7
170°-180°	54.7	1.0
0°-30°	947.7	16.5
0°-40°	1542.2	26.9
0°-60°	2747.9	47.9
0°-90°	3792.8	66.1
90°-120°	631.7	11.0
90°-150°	1502.6	26.2
90°-180°	1948.0	33.9
0°-180°	5741.0	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	88	162	210	224	14
95°	42	97	166	210	223	41
105°	113	146	208	245	258	120
115°	200	217	265	297	308	198
125°	286	288	326	352	360	256
135°	369	370	385	407	413	284
145°	446	446	447	457	461	278
155°	509	509	510	511	508	234
165°	554	553	553	556	553	156
175°	577	575	575	578	574	55
180°	578	578	578	578	578	

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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°	17.9	88.2	162.5	209.9	224.2
92.5°	29.7	90.1	159.9	205.5	216.7
95°	41.6	97.1	166.4	209.8	223.2
97.5°	57.4	108.0	173.7	216.3	229.3
100°	73.9	119.5	183.5	223.7	238.0
102.5°	92.9	131.9	195.3	234.3	247.2
105°	112.9	146.0	207.8	245.3	258.3
107.5°	135.2	163.8	220.6	258.2	269.8
110°	155.6	180.7	235.2	271.9	281.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.3	197.5	248.5	284.3	296.4
115°	199.7	217.2	264.6	297.2	307.5
117.5°	222.9	234.0	278.7	310.9	320.3
120°	242.9	252.3	294.3	324.7	333.2
122.5°	265.2	269.6	310.3	338.4	346.4
125°	286.5	287.8	325.8	352.2	359.8
127.5°	307.3	308.8	341.4	365.4	373.0
130°	328.2	330.6	356.0	379.7	384.5
132.5°	347.8	351.5	370.7	392.5	399.6
135°	369.2	370.5	384.8	407.1	412.9
137.5°	388.7	389.6	400.3	419.6	424.9
140°	407.7	410.0	414.6	434.2	437.7
142.5°	426.4	427.3	428.2	445.2	449.6
145°	445.9	445.5	446.8	457.1	460.7
147.5°	461.4	463.2	464.6	468.6	471.2
150°	479.1	480.0	480.9	480.9	480.9
152.5°	493.6	495.0	495.4	496.3	494.1
155°	509.1	509.1	509.5	511.3	508.2
157.5°	522.2	521.8	522.2	524.0	521.3
160°	534.5	533.6	533.6	535.9	534.0
162.5°	545.4	544.0	544.5	546.8	543.6
165°	554.5	553.1	553.1	555.8	552.7
167.5°	562.2	560.4	560.8	563.6	560.8
170°	568.6	566.7	566.7	569.9	566.7
172.5°	573.5	571.7	571.7	574.5	571.3
175°	576.7	574.9	574.9	577.6	574.5
177.5°	578.5	576.7	576.7	579.5	576.3
180°	578.1	578.1	578.1	578.1	578.1

(END OF REPORT)