

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: P987717

Luminaire Tested: S122DW-B865DB50-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P987717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DW-B865DB50-4F0-XX-W2A-F
Description: Define 2 Direct Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

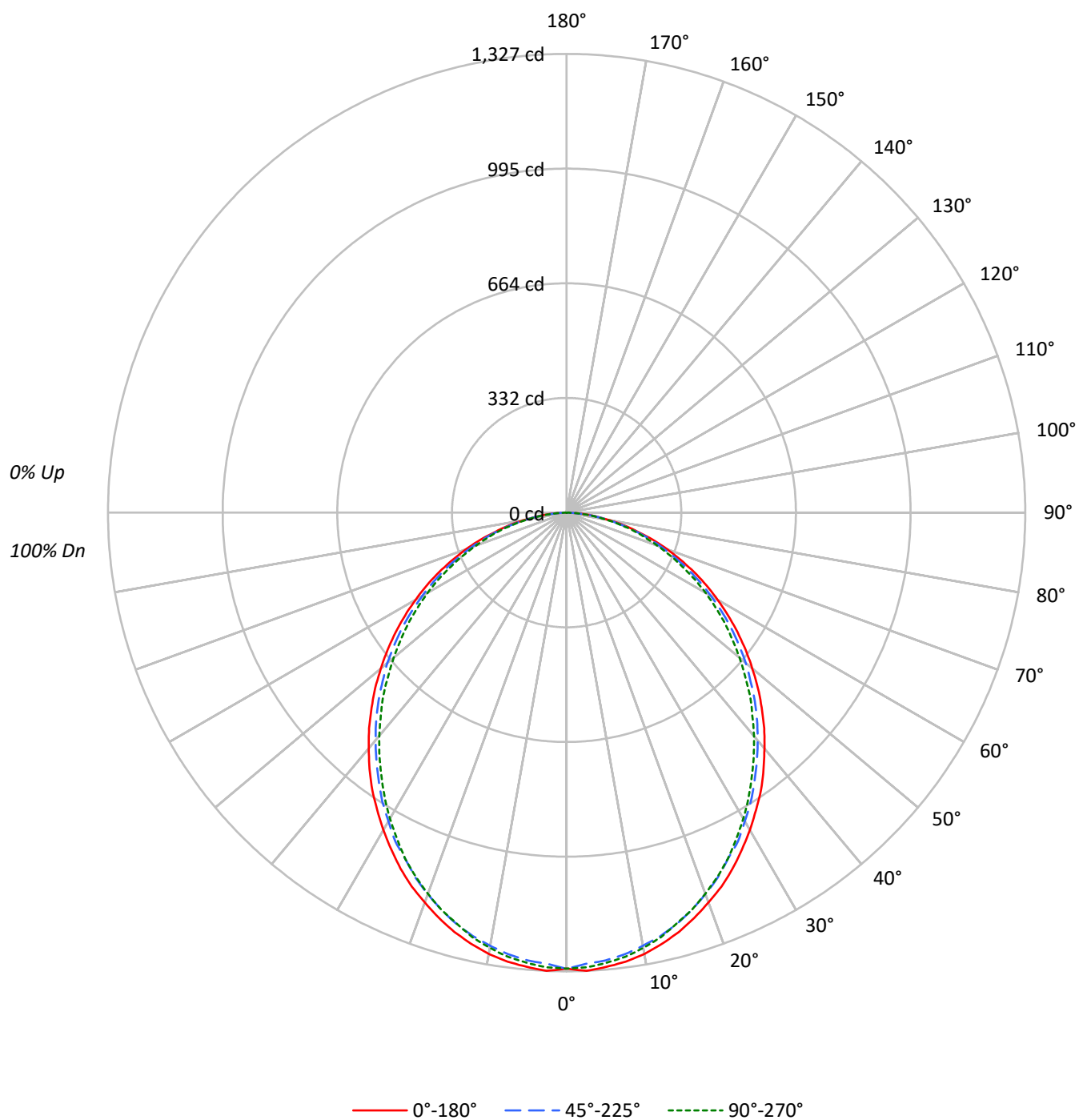
Lumens per Lamp: N/A
Luminaire Lumens: 3356.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

TEST NUMBER: P987717

CATALOG NUMBER: S122DW-B865DB50-4F0-XX-W2A-F

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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	55	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20880	20880	20880
5°	20960	20658	20779
10°	20836	20449	20550
15°	20578	20183	20162
20°	20213	19785	19763
25°	19850	19294	19294
30°	19382	18848	18686
35°	18945	18309	18039
40°	18399	17771	17430
45°	17860	17235	16810
50°	17273	16679	16086
55°	16661	16031	15435
60°	15981	15259	14696
65°	15248	14491	13825
70°	14324	13561	12913
75°	13033	12489	12177
80°	11559	11212	10638
85°	9444	8990	8064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17860 cd/sqm

TEST NUMBER: P987717

CATALOG NUMBER: S122DW-B865DB50-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.7
10°-20°	349.3	10.4
20°-30°	513.3	15.3
30°-40°	596.2	17.8
40°-50°	595.5	17.7
50°-60°	519.2	15.5
60°-70°	383.8	11.4
70°-80°	217.2	6.5
80°-90°	57.3	1.7
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°	986.8	29.4
0°-40°	1583.0	47.2
0°-60°	2697.7	80.4
0°-90°	3356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1319	1314	1300	1310	1308	125
15°	1256	1248	1232	1237	1230	354
25°	1136	1126	1105	1107	1105	523
35°	980	968	948	940	934	612
45°	798	789	770	756	751	616
55°	604	596	581	566	559	540
65°	407	400	387	375	369	403
75°	213	210	204	197	199	227
85°	52	51	50	46	44	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.1	1319.1	1319.1	1319.1	1319.1
2.5°	1326.7	1320.4	1306.4	1319.1	1316.6
5°	1319.1	1314.0	1300.1	1310.2	1307.7
7.5°	1310.2	1302.6	1288.7	1298.8	1296.3
10°	1296.3	1287.4	1272.2	1282.3	1278.5
12.5°	1277.2	1269.6	1254.4	1260.8	1258.2
15°	1255.7	1248.1	1231.6	1236.7	1230.3
17.5°	1229.0	1221.4	1204.9	1211.3	1204.9
20°	1199.9	1192.3	1174.5	1178.3	1173.2
22.5°	1170.7	1159.3	1142.8	1142.8	1140.3
25°	1136.5	1126.3	1104.7	1107.3	1104.7
27.5°	1098.4	1089.5	1073.0	1069.2	1062.9
30°	1060.4	1050.2	1031.2	1027.4	1022.3
32.5°	1019.8	1012.2	991.9	984.3	979.2
35°	980.4	967.8	947.5	939.9	933.5
37.5°	936.1	924.6	904.3	895.5	889.1
40°	890.4	880.2	860.0	848.5	843.5
42.5°	846.0	835.9	815.6	802.9	795.3
45°	797.8	788.9	769.9	755.9	750.9
47.5°	750.9	742.0	721.7	707.7	700.1
50°	701.4	695.1	677.3	659.5	653.2
52.5°	653.2	644.3	627.8	613.9	605.0
55°	603.7	596.1	580.9	565.7	559.3
57.5°	554.3	547.9	531.4	516.2	511.2
60°	504.8	499.7	482.0	468.0	464.2
62.5°	456.6	447.7	435.0	422.4	417.3
65°	407.1	399.5	386.9	375.4	369.1
67.5°	356.4	350.1	338.7	329.8	324.7
70°	309.5	304.4	293.0	284.1	279.0
72.5°	261.3	256.2	249.9	241.0	237.2
75°	213.1	210.5	204.2	196.6	199.1
77.5°	170.0	164.9	162.4	158.5	154.7
80°	126.8	125.6	123.0	119.2	116.7
82.5°	86.2	86.2	85.0	79.9	79.9
85°	52.0	50.7	49.5	45.7	44.4
87.5°	22.8	20.3	17.8	14.0	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)