

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: P1029386

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029386
REPORT IS A COMBINATION OF REPORTS P985697 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D435UB2750-4F0-XX-W2A-F_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

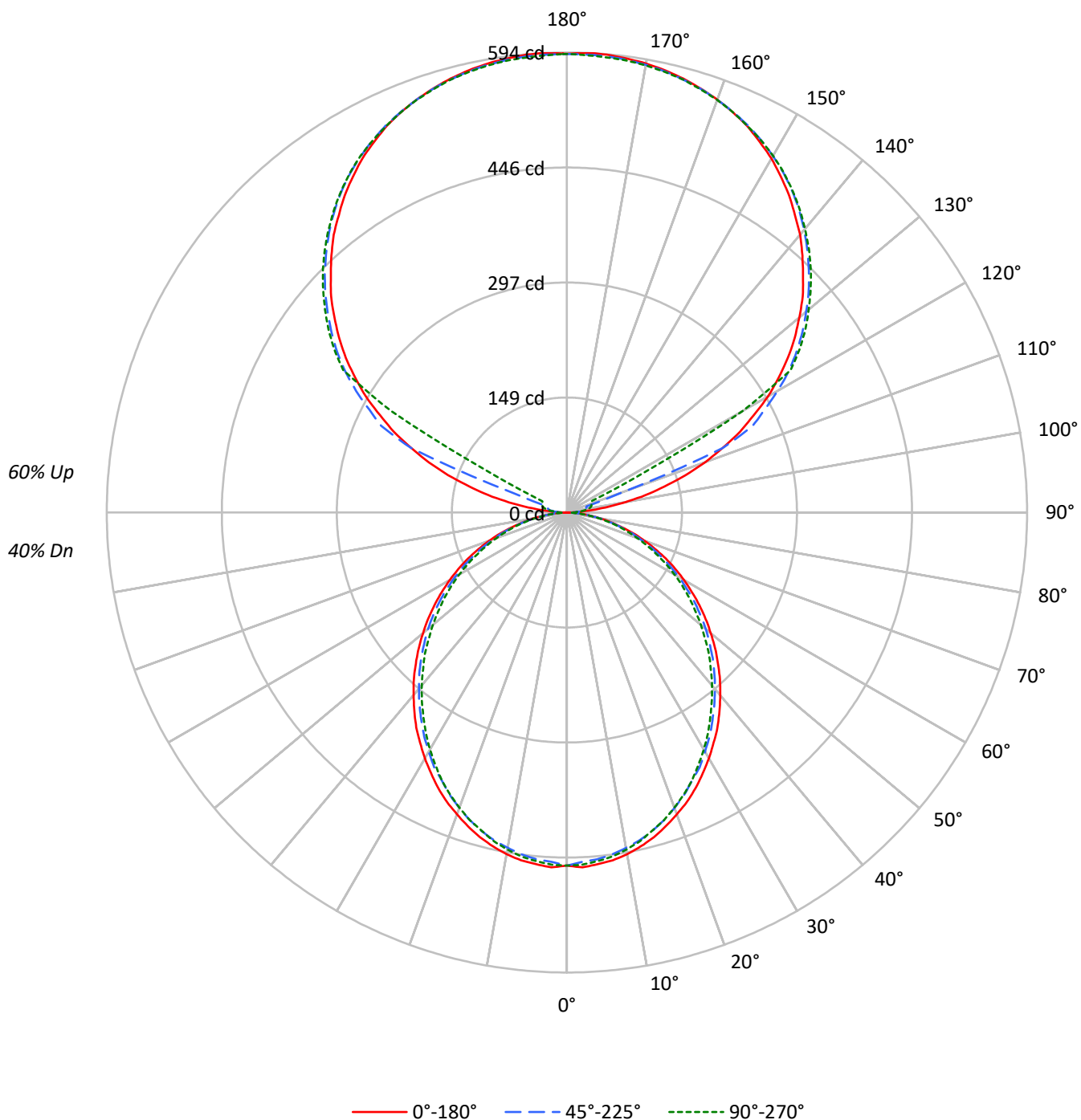
Lumens per Lamp: N/A
Luminaire Lumens: 2897.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40			34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	33			28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28			24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	24			21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21			18
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19			16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17			14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15			12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13			11
10	46	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.5
10°-20°	120.7	4.2
20°-30°	177.4	6.1
30°-40°	206.1	7.1
40°-50°	205.8	7.1
50°-60°	179.5	6.2
60°-70°	132.7	4.6
70°-80°	75.1	2.6
80°-90°	20.8	0.7
90°-100°	19.5	0.7
100°-110°	72.8	2.5
110°-120°	193.0	6.7
120°-130°	320.2	11.1
130°-140°	340.1	11.7
140°-150°	316.1	10.9
150°-160°	254.1	8.8
160°-170°	163.8	5.7
170°-180°	56.4	1.9
0°-30°	341.1	11.8
0°-40°	547.2	18.9
0°-60°	932.5	32.2
0°-90°	1161.0	40.1
90°-120°	285.4	9.9
90°-150°	1261.7	43.6
90°-180°	1736.0	59.9
0°-180°	2897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	0	5	9	11	12	3
95°	28	14	17	19	18	33
105°	130	143	26	31	33	139
115°	246	254	264	66	35	243
125°	348	354	362	365	366	311
135°	431	438	442	446	445	333
145°	500	500	507	510	508	313
155°	551	547	552	554	551	254
165°	580	578	579	582	579	164
175°	593	590	591	594	590	56
180°	592	592	592	592	592	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
90°	0.4	5.1	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.1	11.6
95°	27.9	13.7	16.7	18.9	18.4
97.5°	50.1	15.0	21.9	23.1	23.6
100°	75.8	17.1	24.4	27.9	28.7
102.5°	104.1	103.3	25.3	30.0	31.3
105°	130.3	143.1	26.1	30.8	32.6
107.5°	160.7	171.4	27.0	31.7	33.4
110°	189.8	198.8	75.0	32.1	33.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	224.9	217.7	33.0	34.3
115°	246.4	253.7	264.4	66.0	35.1
117.5°	271.6	280.2	287.5	226.2	114.0
120°	299.9	306.4	314.1	319.2	261.4
122.5°	323.9	330.8	339.3	341.9	342.3
125°	348.3	353.9	362.1	365.1	366.3
127.5°	370.6	376.6	383.1	387.3	387.8
130°	391.6	398.5	403.2	407.9	407.5
132.5°	413.0	418.6	423.3	427.2	426.8
135°	431.0	437.9	441.8	446.0	445.2
137.5°	449.9	455.0	459.3	463.6	462.3
140°	468.3	471.7	476.5	480.3	478.2
142.5°	483.7	486.7	492.3	495.7	493.6
145°	500.0	499.6	506.9	509.9	507.7
147.5°	514.2	512.9	520.2	522.3	520.6
150°	527.9	524.9	531.7	534.3	532.2
152.5°	539.4	536.0	542.4	545.0	542.0
155°	550.6	546.7	551.9	554.4	551.0
157.5°	559.6	556.2	560.0	563.0	559.6
160°	567.3	564.7	567.3	569.9	566.9
162.5°	574.1	571.6	573.7	576.7	572.9
165°	580.1	577.6	578.9	581.9	578.9
167.5°	584.9	582.3	583.6	586.6	582.7
170°	588.7	586.1	587.0	590.0	586.1
172.5°	591.3	588.7	589.6	592.6	588.7
175°	593.4	590.4	591.3	594.3	590.0
177.5°	594.3	591.3	591.7	594.7	590.9
180°	592.1	592.1	592.1	592.1	592.1

(END OF REPORT)