

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: P1029384

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029384
REPORT IS A COMBINATION OF REPORTS P985690 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-F1_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

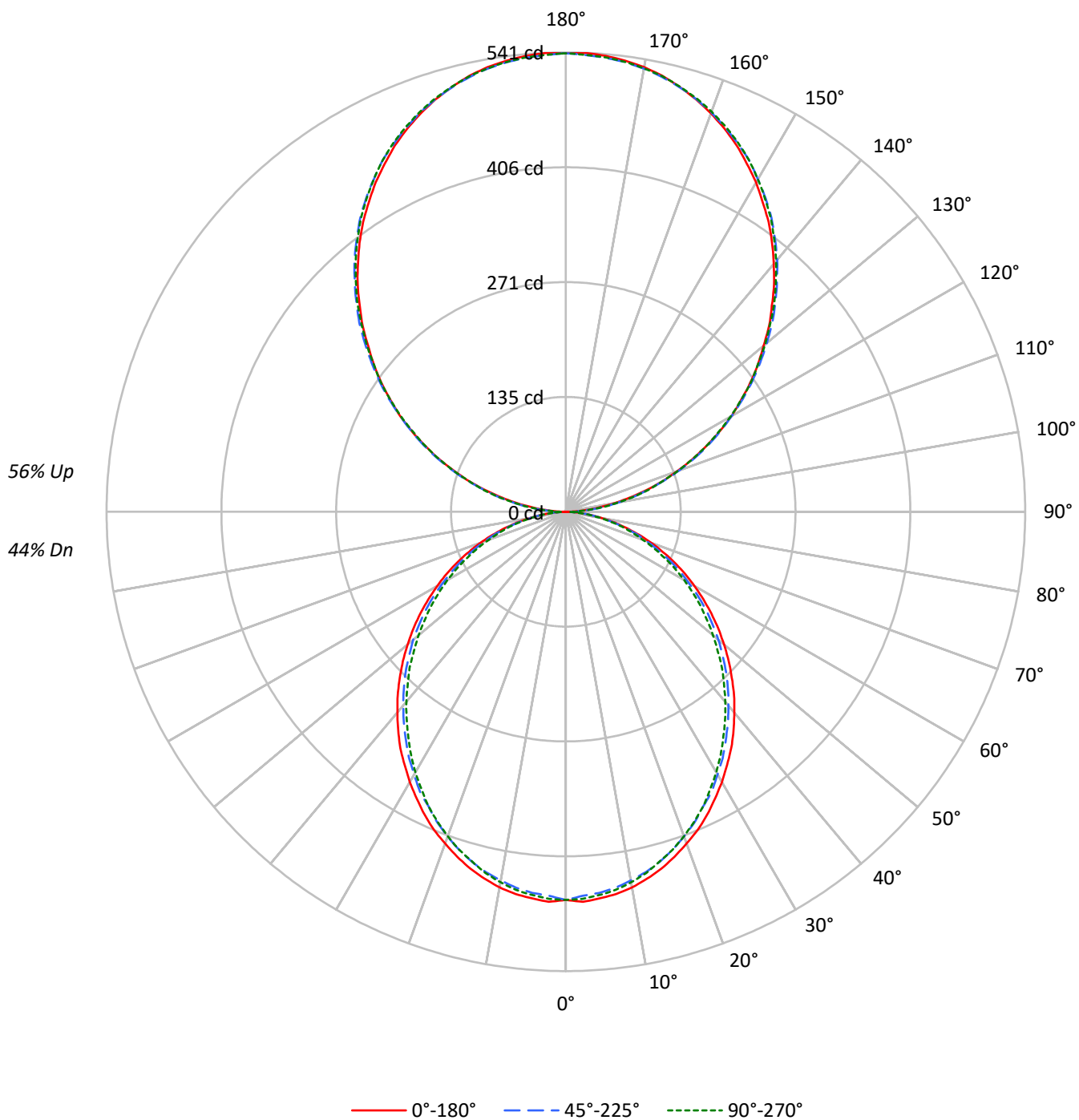
Lumens per Lamp: N/A
Luminaire Lumens: 2674.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
Input Voltage (V):
Input Current (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	106	106	106	106	97	97	97	97		80	80	80		64	64	64		50	50	50
1	96	92	88	85	88	84	81	78		70	68	65		57	55	54		44	43	42
2	88	80	74	69	80	74	68	64		61	57	54		50	47	45		39	37	36
3	80	71	63	58	73	65	59	53		54	49	46		44	41	38		35	32	30
4	73	62	55	49	67	57	51	45		48	43	39		39	35	32		31	28	26
5	67	56	48	42	61	51	44	39		43	37	33		35	31	28		28	25	23
6	62	50	42	36	56	46	39	34		39	33	29		32	28	25		25	22	20
7	57	45	37	32	52	42	35	30		35	30	26		29	25	22		23	20	18
8	53	41	33	28	48	38	31	26		32	27	23		26	22	19		21	18	16
9	49	37	30	25	45	34	28	23		29	24	20		24	20	17		20	17	14
10	46	34	27	22	42	32	25	21		27	22	18		22	18	16		18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7236	7236	7236
5°	7247	6897	6849
10°	7189	6583	6453
15°	7083	6266	6036
20°	6941	5921	5641
25°	6799	5561	5247
30°	6622	5223	4834
35°	6453	4866	4428
40°	6246	4515	4044
45°	6039	4166	3667
50°	5813	3811	3278
55°	5574	3431	2907
60°	5307	3019	2523
65°	5016	2603	2118
70°	4643	2144	1711
75°	4128	1654	1321
80°	3513	1123	849
85°	2543	521	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6039 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.6
10°-20°	121.1	4.5
20°-30°	177.9	6.7
30°-40°	206.6	7.7
40°-50°	206.4	7.7
50°-60°	179.9	6.7
60°-70°	133.0	5.0
70°-80°	75.3	2.8
80°-90°	21.4	0.8
90°-100°	33.4	1.2
100°-110°	106.2	4.0
110°-120°	181.7	6.8
120°-130°	238.9	8.9
130°-140°	268.2	10.0
140°-150°	263.0	9.8
150°-160°	220.6	8.3
160°-170°	146.3	5.5
170°-180°	51.1	1.9
0°-30°	342.0	12.8
0°-40°	548.6	20.5
0°-60°	934.9	35.0
0°-90°	1164.5	43.6
90°-120°	321.2	12.0
90°-150°	1091.4	40.8
90°-180°	1509.0	56.4
0°-180°	2674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	450	454	453	43
15°	435	432	427	429	426	123
25°	394	390	383	384	383	181
35°	340	335	328	326	324	212
45°	276	273	267	262	260	213
55°	209	207	201	196	194	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	0	6	16	15	16	3
95°	24	28	29	29	28	26
105°	98	99	100	101	101	103
115°	182	185	184	184	182	180
125°	265	269	268	266	266	237
135°	343	348	349	348	347	265
145°	416	420	422	423	421	260
155°	476	478	479	481	480	219
165°	518	518	518	521	518	146
175°	539	538	537	540	537	51
180°	540	540	540	540	540	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	459.8	457.6	452.7	457.1	456.2
5°	457.1	455.4	450.5	454.0	453.2
7.5°	454.0	451.4	446.6	450.1	449.2
10°	449.2	446.1	440.9	444.4	443.1
12.5°	442.6	440.0	434.7	436.9	436.0
15°	435.1	432.5	426.8	428.6	426.4
17.5°	425.9	423.3	417.6	419.8	417.6
20°	415.8	413.2	407.0	408.3	406.6
22.5°	405.7	401.7	396.0	396.0	395.1
25°	393.8	390.3	382.8	383.7	382.8
27.5°	380.6	377.6	371.9	370.5	368.3
30°	367.5	363.9	357.3	356.0	354.3
32.5°	353.4	350.8	343.7	341.1	339.3
35°	339.8	335.4	328.3	325.7	323.5
37.5°	324.4	320.4	313.4	310.3	308.1
40°	308.6	305.0	298.0	294.1	292.3
42.5°	293.2	289.7	282.6	278.2	275.6
45°	276.5	273.4	266.8	262.0	260.2
47.5°	260.2	257.1	250.1	245.3	242.6
50°	243.1	240.9	234.7	228.6	226.4
52.5°	226.4	223.3	217.6	212.7	209.7
55°	209.2	206.6	201.3	196.0	193.8
57.5°	192.1	189.9	184.2	178.9	177.1
60°	174.9	173.2	167.0	162.2	160.9
62.5°	158.2	155.2	150.8	146.4	144.6
65°	141.1	138.5	134.1	130.1	127.9
67.5°	123.5	121.3	117.4	114.3	112.5
70°	107.2	105.5	101.5	98.5	96.7
72.5°	90.5	88.8	86.6	83.5	82.2
75°	73.8	73.0	70.8	68.1	69.0
77.5°	58.9	57.1	56.3	54.9	53.6
80°	44.0	43.5	42.6	41.3	40.4
82.5°	29.9	29.9	29.4	27.7	27.7
85°	18.0	17.6	17.1	15.8	15.4
87.5°	7.9	7.0	6.2	4.8	4.4
90°	0.5	5.9	15.9	15.0	15.5
92.5°	10.0	13.7	14.1	14.6	14.6
95°	23.7	28.2	29.2	29.2	28.2
97.5°	39.6	43.7	45.6	45.6	45.6
100°	57.9	61.5	62.9	62.9	62.4
102.5°	77.0	79.7	81.6	82.0	81.6
105°	98.0	99.3	100.2	101.1	101.1
107.5°	118.9	120.7	120.7	121.2	118.9
110°	139.0	141.7	141.7	141.7	140.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.8	163.6	163.1	161.7	160.8
115°	182.2	185.0	184.1	183.6	182.2
117.5°	203.7	207.3	205.0	203.7	202.3
120°	225.1	228.7	225.1	225.1	223.7
122.5°	244.7	249.2	246.9	245.6	244.7
125°	265.2	269.3	267.9	266.5	266.1
127.5°	285.2	290.2	288.4	286.6	285.2
130°	303.9	309.8	308.9	308.0	306.2
132.5°	324.9	329.4	329.9	327.6	326.2
135°	343.1	348.1	349.0	348.5	347.2
137.5°	363.1	367.2	368.1	367.7	365.9
140°	380.9	385.0	387.3	387.3	385.4
142.5°	399.1	403.2	404.6	405.0	403.2
145°	416.4	419.6	422.4	422.8	421.0
147.5°	431.9	436.0	437.8	438.8	436.9
150°	447.9	450.6	452.4	453.8	452.4
152.5°	462.0	464.7	467.0	468.8	467.0
155°	476.1	477.5	478.8	481.1	479.8
157.5°	488.4	489.3	490.2	493.4	491.2
160°	499.4	500.3	500.7	503.5	501.6
162.5°	509.4	509.4	509.8	513.0	510.7
165°	518.0	517.6	517.6	520.8	518.5
167.5°	525.8	524.4	524.4	527.6	525.3
170°	531.7	530.3	529.9	533.1	530.3
172.5°	535.8	534.4	534.0	537.2	534.4
175°	539.0	537.6	536.7	539.9	537.2
177.5°	540.8	539.4	538.5	541.3	538.5
180°	539.9	539.9	539.9	539.9	539.9

(END OF REPORT)