

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: P1029380

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029380
REPORT IS A COMBINATION OF REPORTS P985686 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-D_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

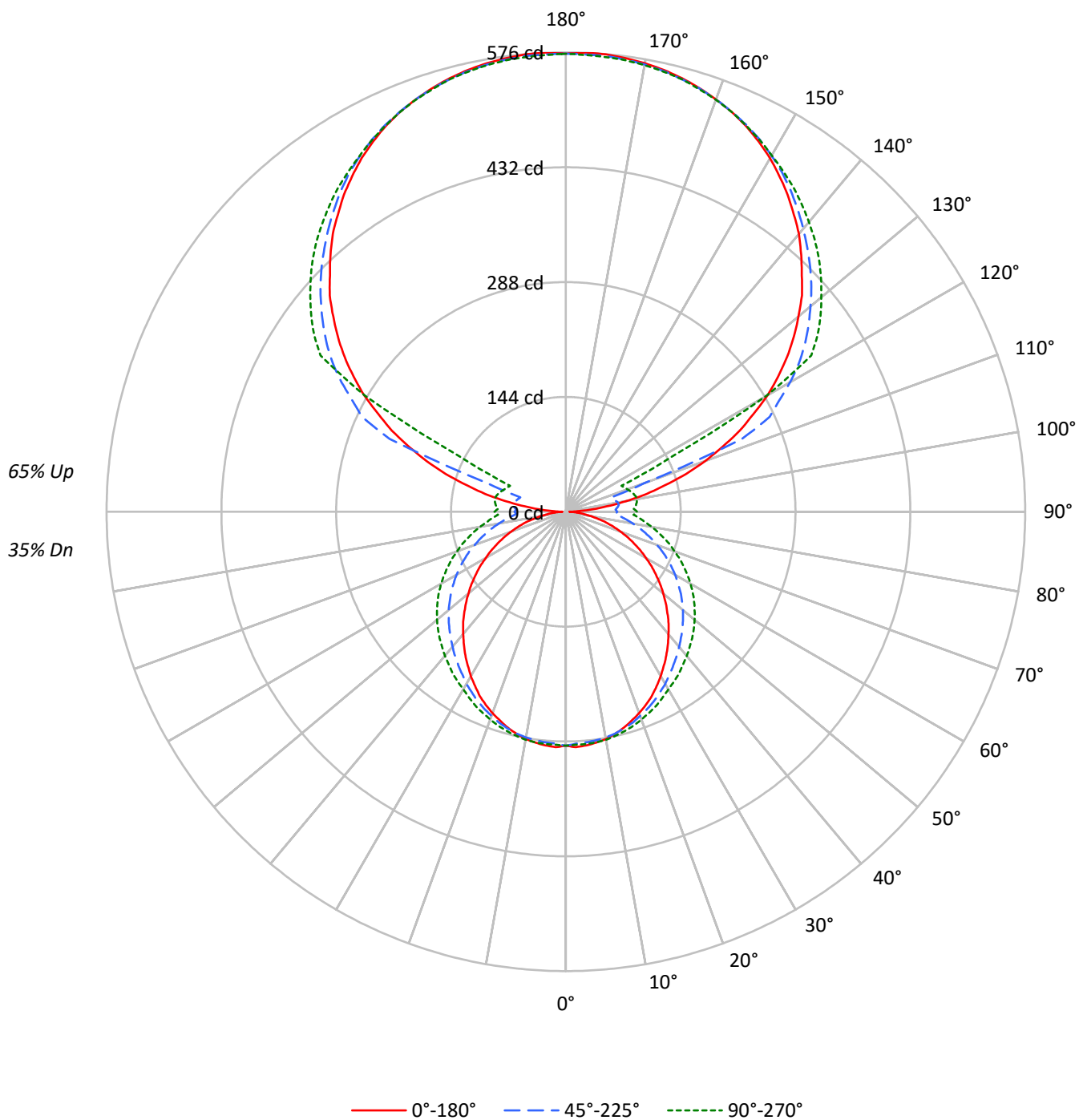
Lumens per Lamp: N/A
Luminaire Lumens: 2804.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35			
1	93	89	85	81	84	80	77	73	64	62	59	50	48	46	36	35	34	28			
2	85	77	70	65	76	70	64	59	56	52	48	43	40	38	31	29	28	22			
3	77	67	60	54	69	61	54	49	49	44	40	38	34	31	27	25	23	18			
4	70	59	51	45	63	54	47	41	43	38	34	33	30	27	24	22	20	16			
5	64	52	44	38	58	48	40	35	38	33	29	30	26	23	22	19	17	13			
6	59	47	39	33	53	43	35	30	34	29	25	27	23	20	19	17	15	12			
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13	10			
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12	9			
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10	8			
10	44	32	24	20	39	29	22	18	24	19	15	19	15	12	14	11	9	7			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	1.0
10°-20°	79.7	2.8
20°-30°	120.8	4.3
30°-40°	147.1	5.2
40°-50°	158.3	5.6
50°-60°	153.7	5.5
60°-70°	134.3	4.8
70°-80°	103.3	3.7
80°-90°	70.2	2.5
90°-100°	66.7	2.4
100°-110°	105.5	3.8
110°-120°	210.3	7.5
120°-130°	323.4	11.5
130°-140°	335.3	12.0
140°-150°	307.5	11.0
150°-160°	246.5	8.8
160°-170°	158.8	5.7
170°-180°	54.7	1.9
0°-30°	228.3	8.1
0°-40°	375.5	13.4
0°-60°	687.5	24.5
0°-90°	995.3	35.5
90°-120°	382.5	13.6
90°-150°	1348.7	48.1
90°-180°	1809.0	64.5
0°-180°	2804.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	34	64	84	89	5
95°	30	37	65	83	88	35
105°	128	153	62	81	88	137
115°	241	252	282	102	77	237
125°	339	344	366	380	385	302
135°	418	425	433	446	449	323
145°	485	485	492	497	497	303
155°	534	530	535	538	534	246
165°	563	560	562	564	562	159
175°	576	573	574	576	572	55
180°	574	574	574	574	574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	4.7	33.9	64.4	83.5	89.4
92.5°	14.2	35.1	62.3	79.7	85.2
95°	30.4	36.7	65.1	83.3	88.0
97.5°	51.6	35.8	67.1	84.0	89.6
100°	76.6	35.3	66.2	85.2	90.7
102.5°	103.6	116.8	64.0	83.9	89.8
105°	128.5	153.3	62.0	81.3	87.7
107.5°	158.0	178.6	59.8	78.8	85.1
110°	185.8	203.1	103.7	75.8	82.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.4	226.7	239.2	73.7	79.6
115°	240.7	252.5	282.0	102.3	77.0
117.5°	264.8	276.5	301.4	254.8	150.1
120°	292.2	300.2	324.7	341.6	290.1
122.5°	315.5	322.6	346.6	360.6	364.8
125°	338.8	344.2	365.7	380.0	385.2
127.5°	360.4	365.7	383.5	398.2	402.6
130°	380.8	386.9	400.5	415.3	418.3
132.5°	401.6	406.5	417.5	431.0	434.0
135°	418.5	425.2	433.2	446.3	448.9
137.5°	436.8	441.8	448.2	460.3	462.1
140°	454.7	457.6	463.1	473.6	474.1
142.5°	469.7	472.2	477.6	486.0	486.0
145°	485.1	484.6	491.7	497.2	497.2
147.5°	498.8	497.5	504.6	507.1	506.7
150°	512.1	509.2	515.8	518.3	516.2
152.5°	523.3	520.0	526.2	528.7	525.8
155°	534.1	530.4	535.3	537.8	534.5
157.5°	542.8	539.5	543.2	546.2	542.8
160°	550.3	547.8	550.3	552.8	549.9
162.5°	557.0	554.5	556.5	559.5	555.7
165°	562.8	560.3	561.5	564.4	561.5
167.5°	567.4	564.9	566.1	569.0	565.3
170°	571.1	568.6	569.4	572.3	568.6
172.5°	573.6	571.1	571.9	574.8	571.1
175°	575.7	572.8	573.6	576.5	572.3
177.5°	576.5	573.6	574.0	576.9	573.2
180°	574.4	574.4	574.4	574.4	574.4

(END OF REPORT)