

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: P1029375

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029375
REPORT IS A COMBINATION OF REPORTS P985676 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-D1_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

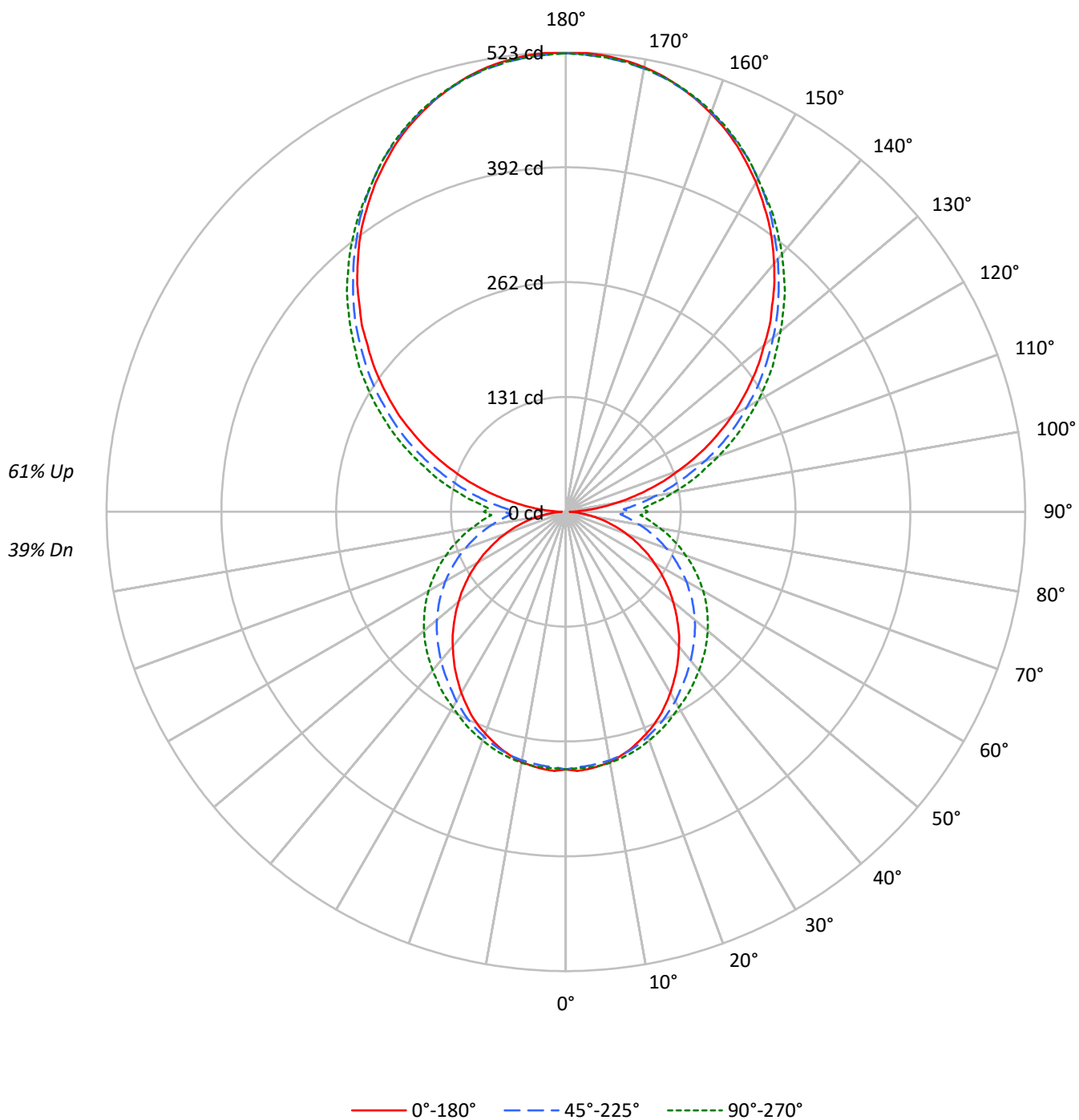
Lumens per Lamp: N/A
Luminaire Lumens: 2580.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	38	37	36			30
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30			24
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25			20
4	71	59	51	45	64	54	47	41	44	39	34	34	31	28	26	23	21			17
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18			14
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16			13
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12			10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10			8

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	1.1
10°-20°	79.7	3.1
20°-30°	120.8	4.7
30°-40°	147.1	5.7
40°-50°	158.3	6.1
50°-60°	153.7	6.0
60°-70°	134.3	5.2
70°-80°	103.3	4.0
80°-90°	70.7	2.7
90°-100°	80.0	3.1
100°-110°	137.5	5.3
110°-120°	198.7	7.7
120°-130°	243.9	9.5
130°-140°	264.7	10.3
140°-150°	255.2	9.9
150°-160°	213.3	8.3
160°-170°	141.5	5.5
170°-180°	49.4	1.9
0°-30°	228.3	8.9
0°-40°	375.5	14.6
0°-60°	687.5	26.6
0°-90°	995.7	38.6
90°-120°	416.3	16.1
90°-150°	1180.1	45.7
90°-180°	1584.0	61.4
0°-180°	2580.1	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	35	72	88	93	4
95°	26	51	77	93	97	28
105°	97	110	134	149	154	102
115°	178	185	204	216	219	176
125°	257	261	274	284	287	230
135°	332	337	342	351	353	257
145°	403	406	408	411	412	252
155°	460	462	463	465	464	212
165°	501	500	500	504	501	141
175°	521	520	519	522	519	50
180°	522	522	522	522	522	

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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	34.6	71.5	87.6	93.2
92.5°	13.5	39.6	66.0	83.0	88.1
95°	26.3	50.7	77.1	93.2	97.4
97.5°	41.3	63.6	90.0	105.7	110.8
100°	58.9	78.2	103.3	119.0	123.3
102.5°	77.1	93.7	118.4	134.1	138.4
105°	96.8	110.5	133.5	149.2	153.9
107.5°	117.1	129.0	150.3	165.2	167.7
110°	136.1	147.2	168.0	181.6	185.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	157.2	166.7	185.8	198.1	201.8
115°	177.9	185.3	203.5	215.8	219.1
117.5°	198.2	205.1	220.7	232.2	235.1
120°	218.9	224.1	237.6	249.5	252.9
122.5°	237.9	242.7	256.2	266.3	269.3
125°	257.3	261.3	273.5	283.6	287.1
127.5°	276.7	281.0	290.8	299.6	302.2
130°	294.7	300.0	308.1	317.4	319.0
132.5°	315.0	318.9	325.7	333.3	335.4
135°	332.1	337.0	342.2	350.6	352.7
137.5°	351.5	355.5	358.6	366.1	367.4
140°	368.7	372.3	375.4	382.2	382.9
142.5°	386.3	389.9	391.2	396.7	397.1
145°	402.7	405.7	408.4	411.4	411.8
147.5°	417.6	421.6	423.4	424.6	424.2
150°	433.0	435.7	437.5	438.8	437.5
152.5°	446.7	449.3	451.6	453.3	451.6
155°	460.4	461.7	463.0	465.2	463.9
157.5°	472.3	473.1	474.0	477.1	474.9
160°	482.8	483.7	484.2	486.8	485.0
162.5°	492.5	492.5	493.0	496.0	493.8
165°	500.9	500.4	500.4	503.5	501.3
167.5°	508.4	507.1	507.1	510.1	507.9
170°	514.1	512.8	512.3	515.4	512.8
172.5°	518.1	516.7	516.3	519.4	516.7
175°	521.2	519.8	519.0	522.0	519.4
177.5°	522.9	521.6	520.7	523.4	520.7
180°	522.0	522.0	522.0	522.0	522.0

(END OF REPORT)