

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: P1029374

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029374
REPORT IS A COMBINATION OF REPORTS P985675 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_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

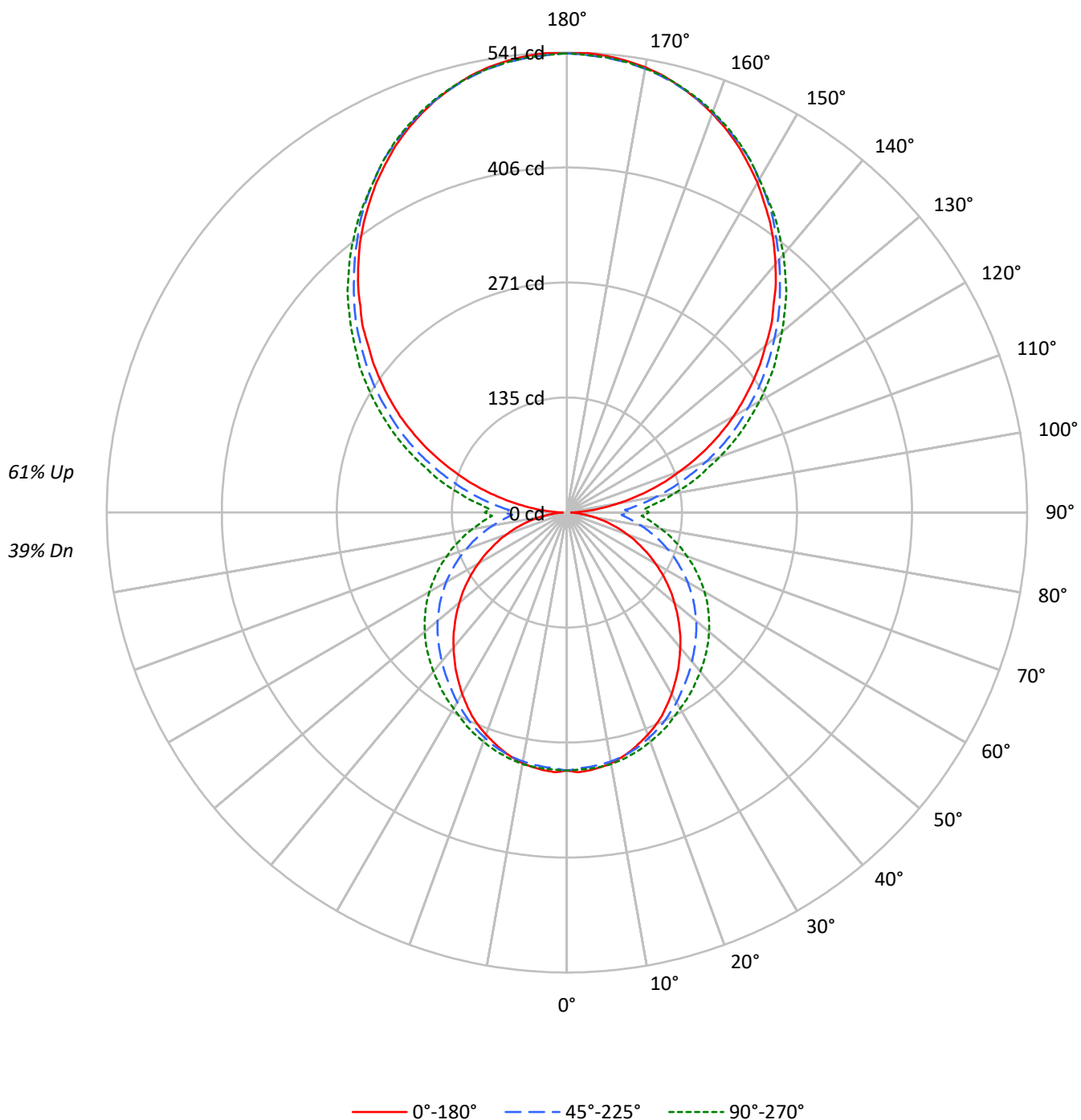
Lumens per Lamp: N/A
Luminaire Lumens: 2669.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	42	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°	4804	4804	4804
5°	4826	4599	4573
10°	4793	4439	4375
15°	4726	4275	4172
20°	4641	4101	3979
25°	4556	3936	3803
30°	4438	3767	3631
35°	4319	3605	3504
40°	4194	3465	3377
45°	4073	3338	3267
50°	3943	3221	3159
55°	3808	3097	3048
60°	3644	2967	2931
65°	3470	2816	2797
70°	3278	2657	2654
75°	3026	2497	2517
80°	2635	2330	2376
85°	2232	2174	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.1
10°-20°	82.5	3.1
20°-30°	125.0	4.7
30°-40°	152.2	5.7
40°-50°	163.8	6.1
50°-60°	159.1	6.0
60°-70°	138.9	5.2
70°-80°	106.9	4.0
80°-90°	73.2	2.7
90°-100°	82.8	3.1
100°-110°	142.3	5.3
110°-120°	205.5	7.7
120°-130°	252.2	9.4
130°-140°	273.8	10.3
140°-150°	263.9	9.9
150°-160°	220.6	8.3
160°-170°	146.3	5.5
170°-180°	51.1	1.9
0°-30°	236.3	8.9
0°-40°	388.5	14.6
0°-60°	711.5	26.7
0°-90°	1030.4	38.6
90°-120°	430.6	16.1
90°-150°	1220.5	45.7
90°-180°	1639.0	61.4
0°-180°	2669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	300	303	303	29
15°	290	291	291	295	295	82
25°	264	267	271	276	278	121
35°	227	235	243	253	256	142
45°	186	198	214	227	232	144
55°	143	159	182	198	203	128
65°	98	119	145	163	169	97
75°	54	79	107	126	132	57
85°	16	43	71	90	96	17
90°	5	36	74	91	96	5
95°	27	52	80	96	101	29
105°	100	114	138	154	159	106
115°	184	192	210	223	227	182
125°	266	270	283	293	297	238
135°	344	348	354	363	365	266
145°	416	420	422	425	426	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°	303.5	303.5	303.5	303.5	303.5
2.5°	305.7	304.4	301.3	303.5	302.6
5°	304.4	303.0	300.4	303.0	302.6
7.5°	302.2	301.3	299.1	302.2	301.7
10°	299.5	298.6	297.3	300.8	300.4
12.5°	295.1	295.6	294.7	298.2	297.8
15°	290.3	291.2	291.2	295.1	294.7
17.5°	284.1	285.9	287.2	291.2	291.2
20°	278.0	280.2	281.9	286.8	286.8
22.5°	271.4	274.0	276.7	281.5	282.4
25°	263.9	267.0	270.9	276.2	277.5
27.5°	255.1	259.9	264.3	270.9	271.8
30°	246.3	252.0	257.7	264.8	266.1
32.5°	236.6	243.2	250.3	258.6	261.3
35°	227.4	234.9	243.2	252.9	256.0
37.5°	217.3	225.6	236.2	246.7	249.8
40°	207.2	216.8	228.7	240.2	244.1
42.5°	197.5	207.2	221.2	234.0	238.0
45°	186.5	198.4	213.8	227.4	231.8
47.5°	175.9	188.7	206.3	220.4	225.2
50°	164.9	178.6	198.4	213.3	218.2
52.5°	154.4	168.9	190.0	205.4	210.7
55°	142.9	158.8	181.7	197.5	203.2
57.5°	132.0	149.5	172.4	189.6	195.3
60°	120.1	139.0	164.1	180.8	186.9
62.5°	109.5	129.3	154.4	172.4	178.1
65°	97.6	119.2	145.1	163.2	168.9
67.5°	87.1	109.5	135.9	153.9	160.1
70°	75.7	98.5	125.8	144.7	150.0
72.5°	65.1	88.8	116.6	135.0	141.6
75°	54.1	78.7	106.9	125.8	131.5
77.5°	43.5	69.1	97.6	116.6	122.7
80°	33.0	59.8	88.4	106.9	113.0
82.5°	24.2	50.6	79.6	98.1	103.8
85°	15.8	43.1	71.3	89.7	95.9
87.5°	9.7	36.1	64.2	82.2	88.0
90°	4.9	35.8	74.0	90.7	96.4
92.5°	14.0	41.0	68.2	85.9	91.1
95°	27.2	52.4	79.8	96.5	100.8
97.5°	42.7	65.7	93.1	109.4	114.7
100°	61.0	80.9	106.9	123.2	127.5
102.5°	79.6	96.9	122.5	138.7	143.2
105°	100.2	114.3	138.0	154.3	159.2
107.5°	121.1	133.5	155.4	170.9	173.4
110°	140.8	152.3	173.8	187.9	191.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	162.6	172.4	192.1	204.8	208.7
115°	184.0	191.6	210.5	223.2	226.6
117.5°	205.0	212.1	228.3	240.2	243.2
120°	226.4	231.8	245.8	258.1	261.5
122.5°	246.0	251.0	264.9	275.5	278.6
125°	266.1	270.2	282.9	293.3	296.9
127.5°	286.1	290.6	300.7	309.9	312.5
130°	304.8	310.2	318.6	328.2	330.0
132.5°	325.8	329.8	336.9	344.8	346.9
135°	343.5	348.5	353.8	362.6	364.8
137.5°	363.5	367.6	370.7	378.7	380.0
140°	381.3	385.0	388.2	395.2	396.0
142.5°	399.5	403.2	404.6	410.3	410.7
145°	416.4	419.6	422.4	425.4	425.8
147.5°	431.9	436.0	437.8	439.2	438.7
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)