

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: P1029377

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029377
REPORT IS A COMBINATION OF REPORTS P985683 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

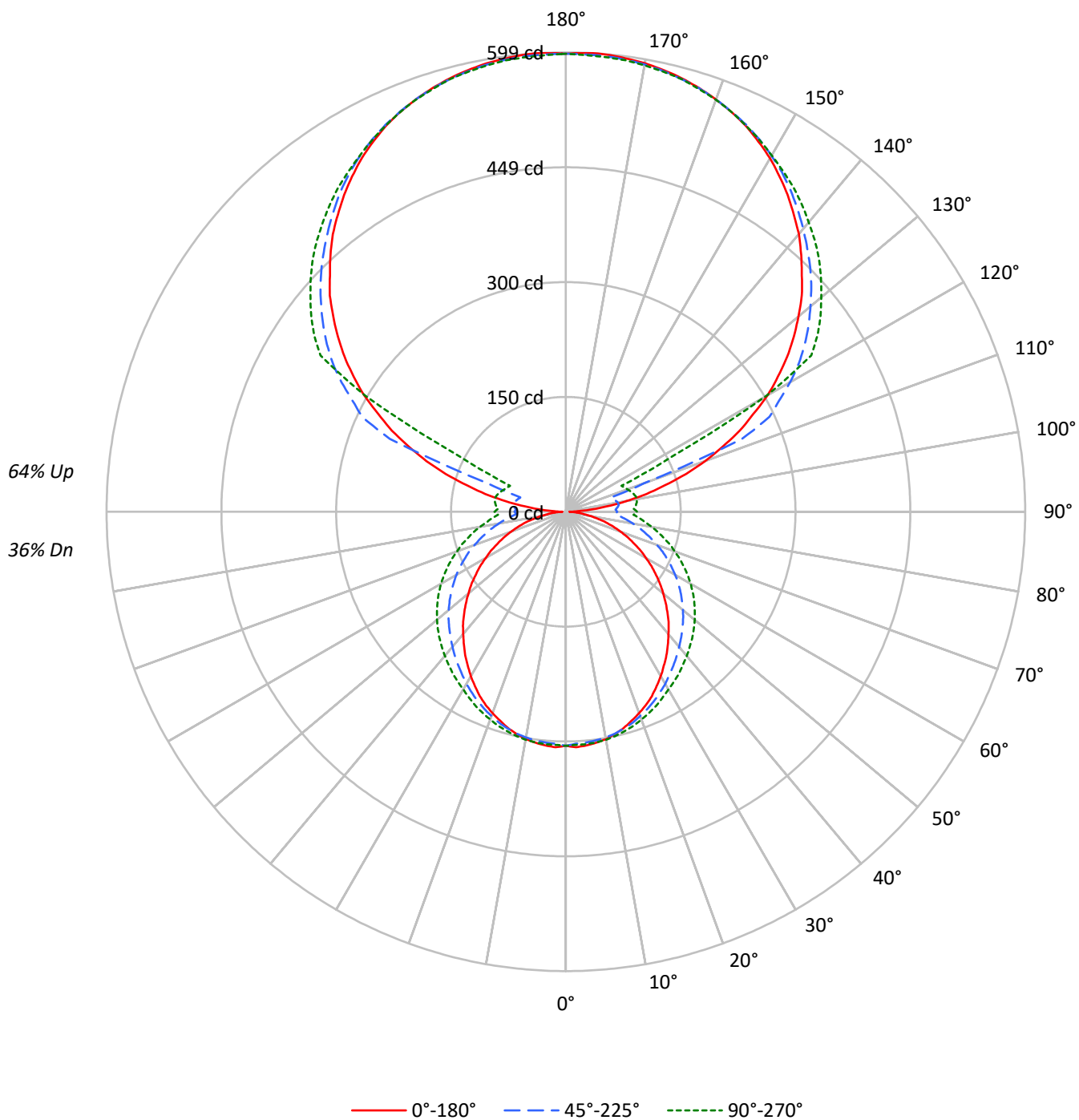
Lumens per Lamp: N/A
Luminaire Lumens: 2916.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 26.2
Input Voltage (V):
Input Current (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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43			36
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	20	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°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.0
10°-20°	82.9	2.8
20°-30°	125.7	4.3
30°-40°	153.0	5.2
40°-50°	164.7	5.6
50°-60°	159.9	5.5
60°-70°	139.6	4.8
70°-80°	107.5	3.7
80°-90°	73.0	2.5
90°-100°	69.3	2.4
100°-110°	109.7	3.8
110°-120°	218.7	7.5
120°-130°	336.3	11.5
130°-140°	348.6	12.0
140°-150°	319.8	11.0
150°-160°	256.3	8.8
160°-170°	165.2	5.7
170°-180°	56.8	1.9
0°-30°	237.5	8.1
0°-40°	390.6	13.4
0°-60°	715.1	24.5
0°-90°	1035.3	35.5
90°-120°	397.7	13.6
90°-150°	1402.4	48.1
90°-180°	1881.0	64.5
0°-180°	2916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	5	35	67	87	93	5
95°	32	38	68	87	92	36
105°	134	159	64	85	91	143
115°	250	262	293	106	80	246
125°	352	358	380	395	400	314
135°	435	442	450	464	467	336
145°	504	504	511	517	517	316
155°	555	551	557	559	556	256
165°	585	583	584	587	584	165
175°	599	596	596	599	595	57
180°	597	597	597	597	597	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	4.8	35.3	67.0	86.8	93.0
92.5°	14.8	36.5	64.8	82.8	88.6
95°	31.6	38.1	67.7	86.6	91.5
97.5°	53.7	37.2	69.7	87.4	93.2
100°	79.6	36.8	68.8	88.7	94.4
102.5°	107.7	121.4	66.6	87.3	93.4
105°	133.6	159.3	64.4	84.6	91.2
107.5°	164.3	185.7	62.1	82.0	88.5
110°	193.3	211.1	107.9	78.8	85.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.9	235.7	248.7	76.6	82.8
115°	250.3	262.4	293.1	106.4	80.1
117.5°	275.3	287.5	313.4	264.9	156.1
120°	303.8	312.1	337.6	355.2	301.6
122.5°	328.0	335.4	360.4	375.0	379.3
125°	352.3	357.9	380.2	395.2	400.4
127.5°	374.7	380.3	398.8	414.1	418.5
130°	395.9	402.3	416.4	431.7	434.9
132.5°	417.5	422.6	434.1	448.1	451.2
135°	435.2	442.1	450.5	464.0	466.7
137.5°	454.2	459.4	466.0	478.7	480.4
140°	472.8	475.8	481.5	492.5	492.9
142.5°	488.3	490.9	496.6	505.3	505.4
145°	504.3	503.9	511.3	517.0	517.0
147.5°	518.6	517.3	524.7	527.2	526.9
150°	532.4	529.4	536.3	538.9	536.8
152.5°	544.1	540.6	547.1	549.7	546.7
155°	555.3	551.4	556.6	559.2	555.8
157.5°	564.4	561.0	564.8	567.9	564.4
160°	572.2	569.6	572.2	574.8	571.8
162.5°	579.1	576.5	578.7	581.7	577.8
165°	585.2	582.6	583.9	586.9	583.9
167.5°	589.9	587.3	588.6	591.6	587.7
170°	593.8	591.2	592.1	595.1	591.2
172.5°	596.4	593.8	594.7	597.7	593.8
175°	598.6	595.5	596.4	599.4	595.1
177.5°	599.4	596.4	596.8	599.9	596.0
180°	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)