

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: P1029376

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029376
REPORT IS A COMBINATION OF REPORTS P985682 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

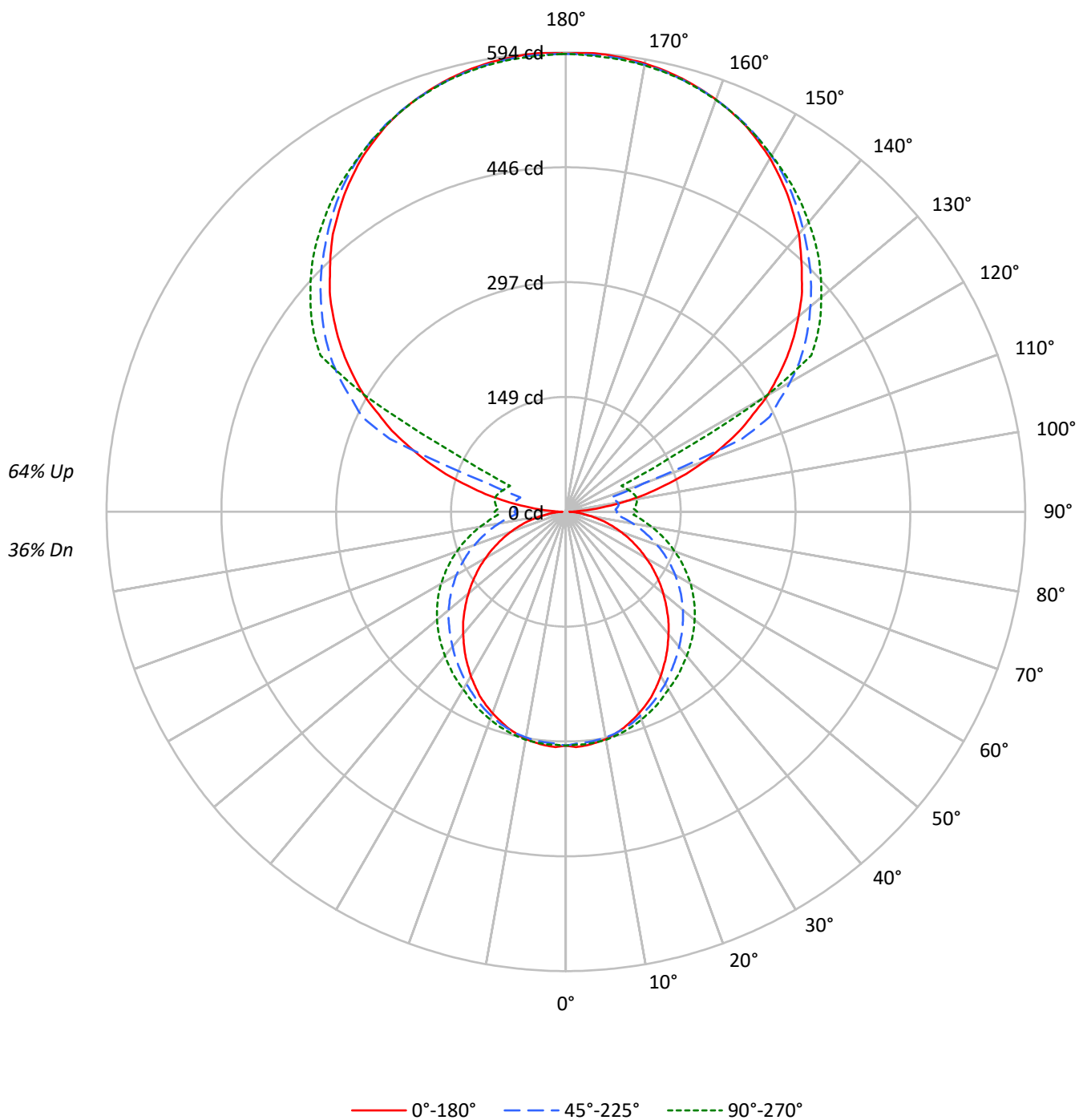
Lumens per Lamp: N/A
Luminaire Lumens: 2891.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 26.2
Input Voltage (V):
Input Current (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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	93	89	85	81	84	80	77	73	64	62	59	50	48	46	36	35	34
2	85	77	70	65	76	70	64	59	56	52	48	43	40	38	31	29	28
3	77	67	60	54	69	61	54	49	49	44	40	38	34	31	27	25	23
4	70	59	51	45	63	54	47	41	43	38	34	33	30	27	24	22	20
5	64	52	44	38	58	48	40	35	38	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	35	30	34	29	25	27	23	20	19	17	15
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10
10	44	32	24	20	39	29	22	18	24	19	15	19	15	12	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.0
10°-20°	82.2	2.8
20°-30°	124.6	4.3
30°-40°	151.7	5.2
40°-50°	163.2	5.6
50°-60°	158.5	5.5
60°-70°	138.4	4.8
70°-80°	106.6	3.7
80°-90°	72.4	2.5
90°-100°	68.8	2.4
100°-110°	108.7	3.8
110°-120°	216.8	7.5
120°-130°	333.4	11.5
130°-140°	345.6	12.0
140°-150°	317.0	11.0
150°-160°	254.1	8.8
160°-170°	163.8	5.7
170°-180°	56.4	1.9
0°-30°	235.5	8.1
0°-40°	387.2	13.4
0°-60°	709.0	24.5
0°-90°	1026.4	35.5
90°-120°	394.3	13.6
90°-150°	1390.4	48.1
90°-180°	1865.0	64.5
0°-180°	2891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	35	66	86	92	5
95°	31	38	67	86	91	36
105°	132	158	64	84	90	142
115°	248	260	291	105	79	244
125°	349	355	377	392	397	312
135°	431	438	447	460	463	333
145°	500	500	507	512	512	313
155°	551	547	552	554	551	254
165°	580	578	579	582	579	164
175°	593	590	591	594	590	56
180°	592	592	592	592	592	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	4.8	34.9	66.5	86.1	92.3
92.5°	14.6	36.2	64.2	82.1	87.9
95°	31.4	37.8	67.1	86.0	90.7
97.5°	53.2	36.9	69.2	86.7	92.4
100°	78.9	36.4	68.2	87.9	93.6
102.5°	106.7	120.4	66.1	86.5	92.7
105°	132.5	158.0	63.8	83.8	90.5
107.5°	162.9	184.1	61.6	81.2	87.8
110°	191.6	209.3	107.0	78.1	84.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.0	233.7	246.6	76.0	82.1
115°	248.2	260.3	290.7	105.4	79.4
117.5°	272.9	285.0	310.7	262.6	154.8
120°	301.2	309.5	334.7	352.1	299.1
122.5°	325.2	332.6	357.3	371.7	376.1
125°	349.2	354.8	377.0	391.8	397.0
127.5°	371.5	377.0	395.4	410.5	415.0
130°	392.5	398.9	412.8	428.1	431.2
132.5°	413.9	419.0	430.3	444.3	447.4
135°	431.4	438.3	446.6	460.0	462.7
137.5°	450.3	455.4	461.9	474.6	476.3
140°	468.7	471.7	477.4	488.2	488.7
142.5°	484.1	486.7	492.3	501.0	501.1
145°	500.0	499.6	506.9	512.5	512.5
147.5°	514.2	512.9	520.2	522.7	522.4
150°	527.9	524.9	531.7	534.3	532.2
152.5°	539.4	536.0	542.4	545.0	542.0
155°	550.6	546.7	551.9	554.4	551.0
157.5°	559.6	556.2	560.0	563.0	559.6
160°	567.3	564.7	567.3	569.9	566.9
162.5°	574.1	571.6	573.7	576.7	572.9
165°	580.1	577.6	578.9	581.9	578.9
167.5°	584.9	582.3	583.6	586.6	582.7
170°	588.7	586.1	587.0	590.0	586.1
172.5°	591.3	588.7	589.6	592.6	588.7
175°	593.4	590.4	591.3	594.3	590.0
177.5°	594.3	591.3	591.7	594.7	590.9
180°	592.1	592.1	592.1	592.1	592.1

(END OF REPORT)