

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: P1029381

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029381
REPORT IS A COMBINATION OF REPORTS P985687 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-F1_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

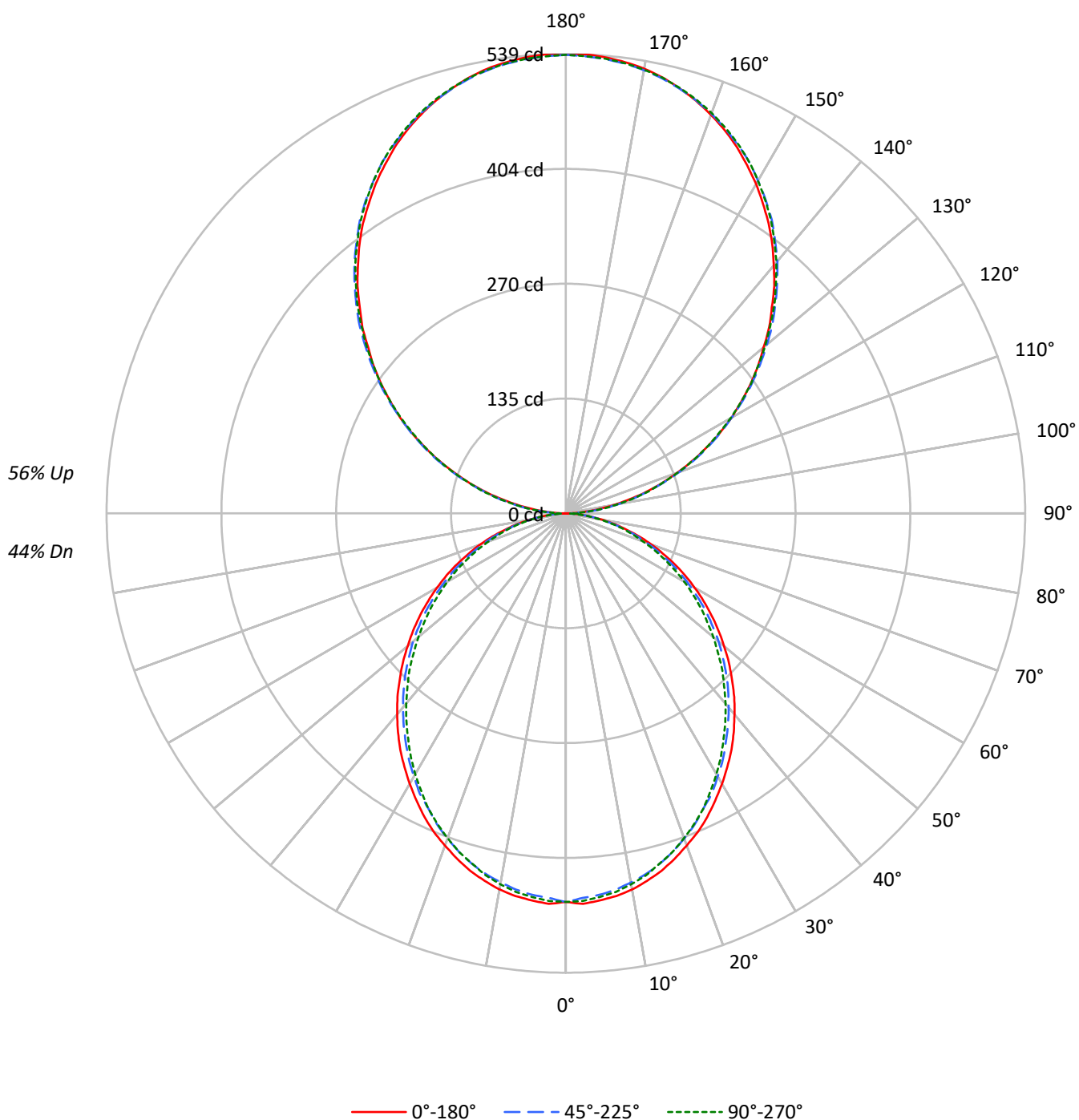
Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	44	43	42
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	37	36
3	80	71	63	58	73	65	59	53	54	49	46	44	41	38	35	32	30
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.6
10°-20°	120.7	4.5
20°-30°	177.4	6.7
30°-40°	206.1	7.7
40°-50°	205.8	7.7
50°-60°	179.5	6.7
60°-70°	132.7	5.0
70°-80°	75.1	2.8
80°-90°	21.3	0.8
90°-100°	33.3	1.2
100°-110°	105.8	4.0
110°-120°	181.1	6.8
120°-130°	238.1	8.9
130°-140°	267.3	10.0
140°-150°	262.1	9.8
150°-160°	219.9	8.2
160°-170°	145.8	5.5
170°-180°	51.0	1.9
0°-30°	341.1	12.8
0°-40°	547.2	20.5
0°-60°	932.5	35.0
0°-90°	1161.5	43.6
90°-120°	320.2	12.0
90°-150°	1087.8	40.8
90°-180°	1504.0	56.4
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	0	6	16	15	15	3
95°	24	28	29	29	28	26
105°	98	99	100	101	101	103
115°	182	184	184	183	182	180
125°	264	268	267	266	265	236
135°	342	347	348	347	346	264
145°	415	418	421	421	420	259
155°	474	476	477	480	478	218
165°	516	516	516	519	517	146
175°	537	536	535	538	535	51
180°	538	538	538	538	538	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
90°	0.5	5.9	15.9	15.0	15.4
92.5°	10.0	13.6	14.1	14.5	14.5
95°	23.6	28.2	29.1	29.1	28.2
97.5°	39.5	43.6	45.4	45.4	45.4
100°	57.7	61.3	62.7	62.7	62.2
102.5°	76.7	79.5	81.3	81.7	81.3
105°	97.6	99.0	99.9	100.8	100.8
107.5°	118.5	120.3	120.3	120.8	118.5
110°	138.5	141.2	141.2	141.2	139.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.3	163.0	162.6	161.2	160.3
115°	181.6	184.4	183.5	183.0	181.6
117.5°	203.0	206.6	204.3	203.0	201.6
120°	224.3	228.0	224.3	224.3	223.0
122.5°	243.9	248.4	246.1	244.8	243.9
125°	264.3	268.4	267.0	265.7	265.2
127.5°	284.3	289.3	287.4	285.6	284.3
130°	302.9	308.8	307.9	307.0	305.2
132.5°	323.8	328.3	328.8	326.5	325.1
135°	341.9	346.9	347.8	347.4	346.0
137.5°	361.9	366.0	366.9	366.5	364.6
140°	379.6	383.7	386.0	386.0	384.2
142.5°	397.8	401.9	403.2	403.7	401.9
145°	415.1	418.2	421.0	421.4	419.6
147.5°	430.5	434.6	436.4	437.3	435.5
150°	446.4	449.1	450.9	452.3	450.9
152.5°	460.5	463.2	465.5	467.3	465.5
155°	474.5	475.9	477.3	479.5	478.2
157.5°	486.8	487.7	488.6	491.8	489.5
160°	497.7	498.6	499.1	501.8	500.0
162.5°	507.7	507.7	508.1	511.3	509.1
165°	516.3	515.9	515.9	519.0	516.8
167.5°	524.0	522.7	522.7	525.9	523.6
170°	529.9	528.6	528.1	531.3	528.6
172.5°	534.0	532.7	532.2	535.4	532.7
175°	537.2	535.8	534.9	538.1	535.4
177.5°	539.0	537.7	536.8	539.5	536.8
180°	538.1	538.1	538.1	538.1	538.1

(END OF REPORT)