

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: P1029519

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029519
REPORT IS A COMBINATION OF REPORTS P986123 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_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

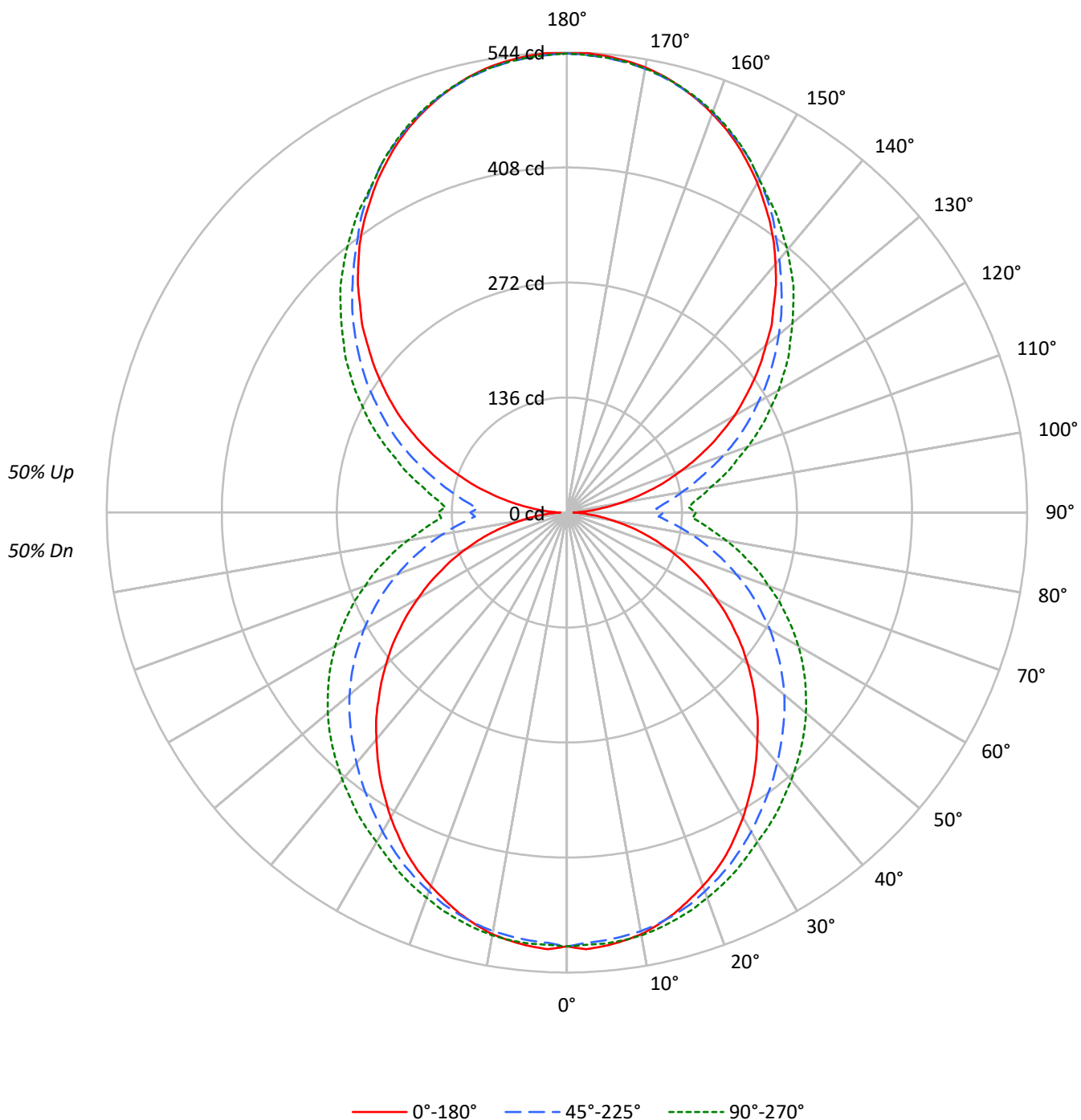
Lumens per Lamp: N/A
Luminaire Lumens: 3477.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	44	44	44
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	36	36	36
3	79	69	61	55	72	64	57	51	53	48	44	44	40	37	36	33	30	30	30	30
4	72	61	52	46	66	56	49	43	47	41	37	39	35	31	32	28	26	26	26	26
5	66	54	45	39	60	50	42	36	42	36	32	35	30	27	28	25	22	22	22	22
6	61	48	40	34	56	45	37	31	38	32	27	31	27	23	26	22	19	19	19	19
7	56	43	35	29	51	40	33	27	34	28	24	29	24	20	23	20	17	17	17	17
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	15	15	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14	14	14	14
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.4
10°-20°	139.5	4.0
20°-30°	211.4	6.1
30°-40°	257.4	7.4
40°-50°	277.0	8.0
50°-60°	269.0	7.7
60°-70°	234.9	6.8
70°-80°	180.8	5.2
80°-90°	122.6	3.5
90°-100°	117.1	3.4
100°-110°	167.7	4.8
110°-120°	222.9	6.4
120°-130°	262.6	7.6
130°-140°	279.0	8.0
140°-150°	266.0	7.6
150°-160°	221.8	6.4
160°-170°	147.1	4.2
170°-180°	51.4	1.5
0°-30°	399.6	11.5
0°-40°	657.0	18.9
0°-60°	1202.9	34.6
0°-90°	1741.3	50.1
90°-120°	507.8	14.6
90°-150°	1315.4	37.8
90°-180°	1736.0	49.9
0°-180°	3477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	57	114	143	152	7
95°	30	69	115	143	151	31
105°	102	125	165	192	200	108
115°	186	197	230	252	258	184
125°	268	272	295	313	320	240
135°	346	351	359	374	379	267
145°	419	422	425	430	431	262
155°	479	480	481	484	482	220
165°	521	520	520	524	521	147
175°	542	540	540	543	540	51
180°	543	543	543	543	543	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	7.9	56.6	114.2	143.0	152.4
92.5°	16.8	59.8	105.7	135.2	144.1
95°	29.7	69.3	114.8	143.1	151.1
97.5°	45.0	81.2	126.1	153.6	162.6
100°	63.4	94.5	137.6	165.1	172.8
102.5°	81.9	109.2	151.2	178.3	186.1
105°	102.2	125.1	164.8	191.7	199.9
107.5°	123.2	143.0	180.2	205.8	211.7
110°	142.7	160.2	196.7	220.5	227.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.7	179.3	213.1	235.5	242.8
115°	186.2	197.2	229.6	251.5	258.3
117.5°	206.9	216.6	245.5	266.4	272.6
120°	228.5	235.1	261.3	282.1	288.9
122.5°	248.2	253.5	278.7	297.5	303.3
125°	268.1	272.2	294.6	313.3	319.6
127.5°	288.2	292.5	310.7	327.5	332.8
130°	307.0	312.2	326.9	343.8	348.0
132.5°	328.1	331.9	343.5	358.3	362.9
135°	345.6	350.6	359.0	374.2	378.7
137.5°	365.7	369.9	374.6	388.2	391.6
140°	383.6	387.0	390.8	402.7	405.3
142.5°	401.9	405.4	406.7	416.1	418.0
145°	418.6	421.8	424.6	429.5	431.4
147.5°	434.2	438.3	440.2	441.8	442.2
150°	450.2	453.0	454.8	456.2	454.8
152.5°	464.4	467.2	469.5	471.3	469.5
155°	478.6	480.0	481.4	483.7	482.3
157.5°	491.0	491.9	492.8	496.0	493.8
160°	502.0	502.9	503.4	506.1	504.3
162.5°	512.1	512.1	512.5	515.7	513.4
165°	520.8	520.3	520.3	523.5	521.2
167.5°	528.6	527.2	527.2	530.4	528.1
170°	534.5	533.1	532.7	535.9	533.1
172.5°	538.6	537.3	536.8	540.0	537.3
175°	541.8	540.5	539.6	542.8	540.0
177.5°	543.7	542.3	541.4	544.1	541.4
180°	542.8	542.8	542.8	542.8	542.8

(END OF REPORT)