

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: P1029536

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029536
REPORT IS A COMBINATION OF REPORTS P986150 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-F_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

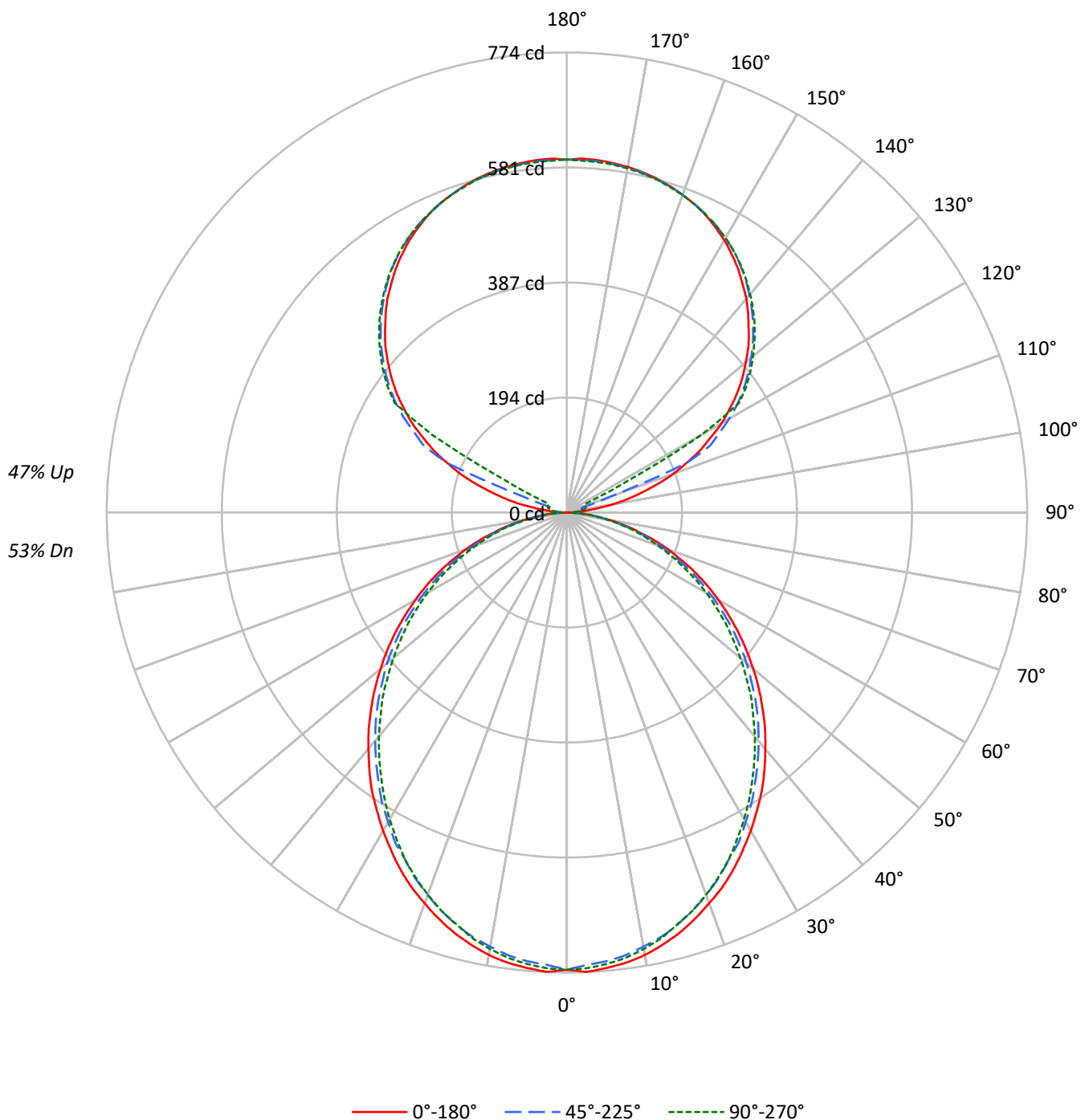
Lumens per Lamp: N/A
Luminaire Lumens: 3699.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	98	94	90	87	91	87	84	81	75	72	70	63	61	59	52	51	50
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	36	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	33	54	43	36	31	37	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	21	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.0
10°-20°	203.7	5.5
20°-30°	299.3	8.1
30°-40°	347.7	9.4
40°-50°	347.2	9.4
50°-60°	302.8	8.2
60°-70°	223.8	6.1
70°-80°	126.6	3.4
80°-90°	34.5	0.9
90°-100°	19.6	0.5
100°-110°	73.0	2.0
110°-120°	193.6	5.2
120°-130°	321.1	8.7
130°-140°	341.1	9.2
140°-150°	317.0	8.6
150°-160°	254.9	6.9
160°-170°	164.2	4.4
170°-180°	56.5	1.5
0°-30°	575.4	15.6
0°-40°	923.1	25.0
0°-60°	1573.1	42.5
0°-90°	1958.0	52.9
90°-120°	286.2	7.7
90°-150°	1265.3	34.2
90°-180°	1741.0	47.1
0°-180°	3699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	0	5	9	11	12	3
95°	28	14	17	19	18	33
105°	131	144	26	31	33	140
115°	247	254	265	66	35	243
125°	349	355	363	366	367	312
135°	432	439	443	447	446	334
145°	502	501	508	511	509	314
155°	552	548	554	556	553	254
165°	582	579	580	584	580	164
175°	595	592	593	596	592	57
180°	594	594	594	594	594	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	0.4	5.2	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.2	11.6
95°	27.9	13.8	16.8	18.9	18.5
97.5°	50.3	15.0	21.9	23.2	23.6
100°	76.1	17.2	24.5	27.9	28.8
102.5°	104.4	103.6	25.4	30.1	31.4
105°	130.6	143.5	26.2	30.9	32.7
107.5°	161.1	171.9	27.1	31.8	33.5
110°	190.4	199.4	75.2	32.2	33.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	225.6	218.3	33.1	34.4
115°	247.1	254.4	265.1	66.2	35.2
117.5°	272.4	281.0	288.3	226.9	114.3
120°	300.8	307.2	315.0	320.1	262.1
122.5°	324.9	331.7	340.3	342.9	343.3
125°	349.3	354.9	363.1	366.1	367.4
127.5°	371.7	377.7	384.2	388.5	388.9
130°	392.7	399.6	404.3	409.1	408.6
132.5°	414.2	419.8	424.5	428.4	428.0
135°	432.3	439.2	443.0	447.3	446.5
137.5°	451.2	456.3	460.6	464.9	463.6
140°	469.7	473.1	477.8	481.7	479.5
142.5°	485.1	488.1	493.7	497.2	495.0
145°	501.5	501.0	508.3	511.3	509.2
147.5°	515.6	514.4	521.7	523.8	522.1
150°	529.4	526.4	533.3	535.8	533.7
152.5°	541.0	537.6	544.0	546.6	543.6
155°	552.2	548.3	553.5	556.0	552.6
157.5°	561.2	557.8	561.6	564.6	561.2
160°	568.9	566.3	568.9	571.5	568.5
162.5°	575.8	573.2	575.4	578.4	574.5
165°	581.8	579.2	580.5	583.5	580.5
167.5°	586.5	584.0	585.3	588.3	584.4
170°	590.4	587.8	588.7	591.7	587.8
172.5°	593.0	590.4	591.3	594.3	590.4
175°	595.1	592.1	593.0	596.0	591.7
177.5°	596.0	593.0	593.4	596.4	592.6
180°	593.8	593.8	593.8	593.8	593.8

(END OF REPORT)