

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: P1029528

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029528
REPORT IS A COMBINATION OF REPORTS P986137 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-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

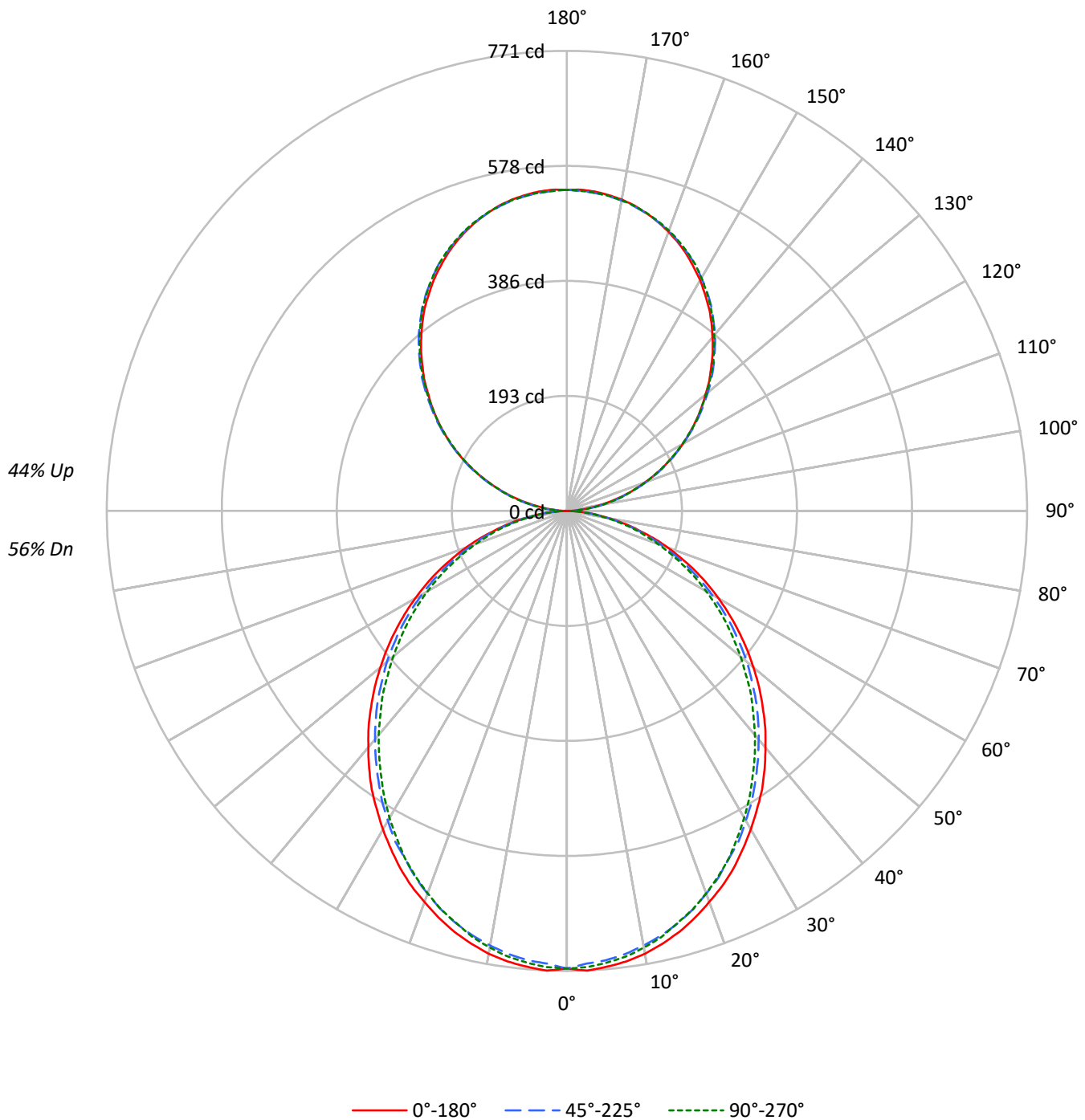
Lumens per Lamp: N/A
Luminaire Lumens: 3457.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1029528

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_2700K

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	48	46	44
3	82	73	65	60	76	68	61	56	59	54	50	51	47	44	43	40	38
4	75	65	57	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	58	49	43	64	54	47	41	47	41	37	41	36	32	35	31	28
6	64	52	43	38	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	39	33	55	44	37	31	38	33	28	33	29	25	29	25	22
8	55	42	35	29	51	40	33	28	35	29	25	31	26	22	26	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	28	23	44	34	27	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

TEST NUMBER: P1029528

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	2.1
10°-20°	203.1	5.9
20°-30°	298.4	8.6
30°-40°	346.6	10.0
40°-50°	346.2	10.0
50°-60°	301.9	8.7
60°-70°	223.1	6.5
70°-80°	126.3	3.7
80°-90°	34.8	1.0
90°-100°	33.3	1.0
100°-110°	105.8	3.1
110°-120°	181.1	5.2
120°-130°	238.1	6.9
130°-140°	267.3	7.7
140°-150°	262.1	7.6
150°-160°	219.9	6.4
160°-170°	145.8	4.2
170°-180°	51.0	1.5
0°-30°	573.7	16.6
0°-40°	920.3	26.6
0°-60°	1568.3	45.4
0°-90°	1952.5	56.5
90°-120°	320.2	9.3
90°-150°	1087.8	31.5
90°-180°	1504.0	43.5
0°-180°	3457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
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	

TEST NUMBER: P1029528

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
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

TEST NUMBER: P1029528

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_2700K

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)