

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: P1029558

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029558
REPORT IS A COMBINATION OF REPORTS P986227 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D710UB2750-4F0-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

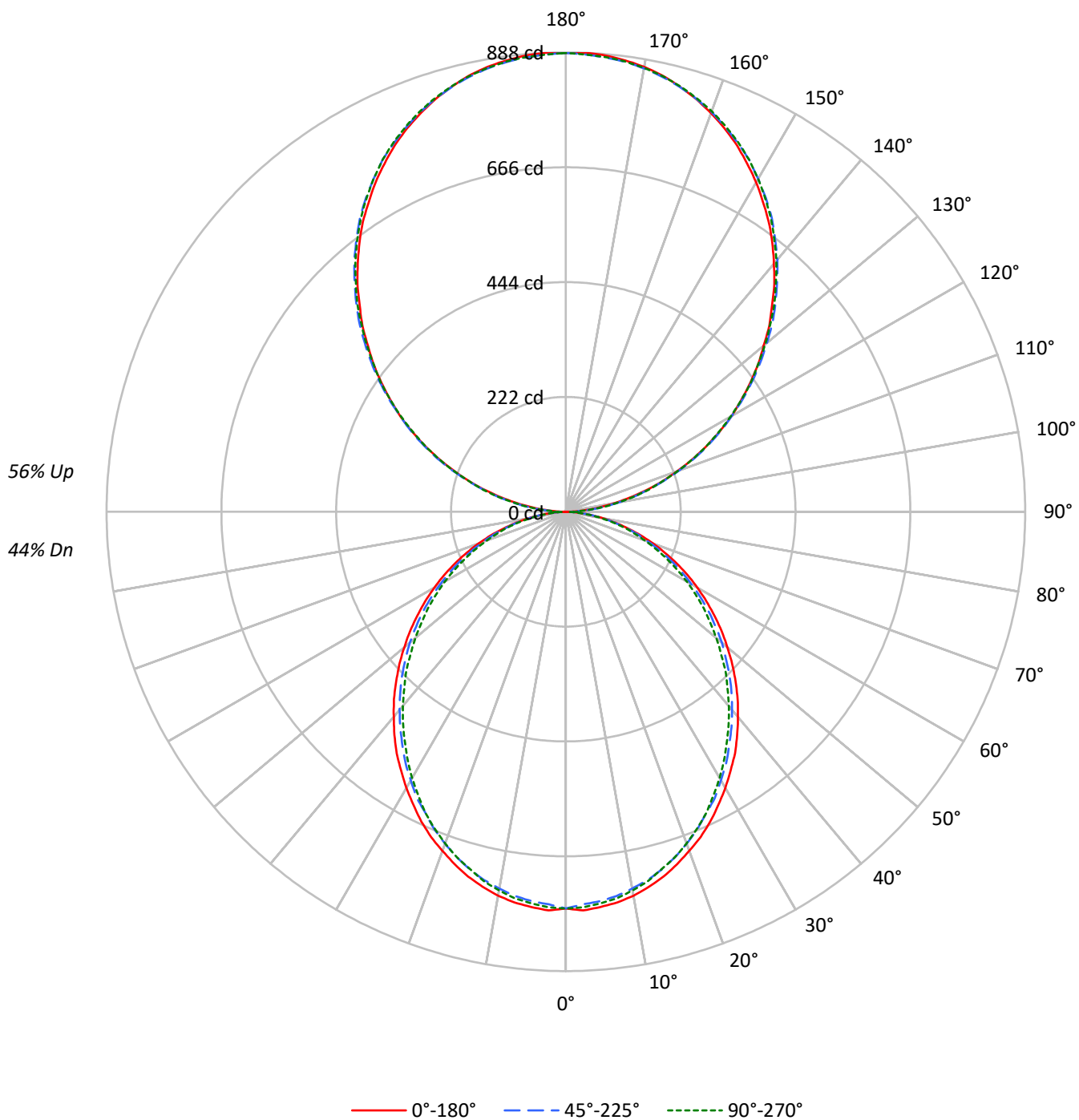
Lumens per Lamp: N/A
Luminaire Lumens: 4433.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 47.2
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	65	65	65	51	51	51
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36
3	80	71	63	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	45	48	43	39	39	36	33	31	29	26
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	23	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	27	22	19	21	18	16
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.6
10°-20°	203.1	4.6
20°-30°	298.4	6.7
30°-40°	346.6	7.8
40°-50°	346.2	7.8
50°-60°	301.9	6.8
60°-70°	223.1	5.0
70°-80°	126.3	2.8
80°-90°	35.8	0.8
90°-100°	54.8	1.2
100°-110°	174.4	3.9
110°-120°	298.4	6.7
120°-130°	392.5	8.9
130°-140°	440.5	9.9
140°-150°	432.0	9.7
150°-160°	362.4	8.2
160°-170°	240.3	5.4
170°-180°	84.0	1.9
0°-30°	573.7	12.9
0°-40°	920.3	20.8
0°-60°	1568.3	35.4
0°-90°	1953.5	44.1
90°-120°	527.7	11.9
90°-150°	1792.7	40.4
90°-180°	2479.0	55.9
0°-180°	4433.0	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°	1	10	26	25	25	4
95°	39	46	48	48	46	43
105°	161	163	165	166	166	170
115°	299	304	302	302	299	296
125°	436	442	440	438	437	389
135°	564	572	573	572	570	435
145°	684	689	694	694	692	427
155°	782	784	787	790	788	360
165°	851	850	850	855	852	240
175°	885	883	882	887	882	84
180°	887	887	887	887	887	

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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°	0.7	9.7	26.2	24.7	25.4
92.5°	16.5	22.5	23.2	23.9	23.9
95°	38.9	46.4	47.9	47.9	46.4
97.5°	65.1	71.8	74.8	74.8	74.8
100°	95.0	101.0	103.3	103.3	102.5
102.5°	126.5	131.0	134.0	134.7	134.0
105°	160.9	163.2	164.6	166.1	166.1
107.5°	195.3	198.3	198.3	199.1	195.3
110°	228.3	232.8	232.8	232.8	230.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.2	268.7	267.9	265.7	264.2
115°	299.4	303.9	302.4	301.6	299.4
117.5°	334.5	340.5	336.8	334.5	332.3
120°	369.7	375.7	369.7	369.7	367.5
122.5°	401.9	409.4	405.6	403.4	401.9
125°	435.6	442.3	440.1	437.8	437.1
127.5°	468.5	476.7	473.7	470.7	468.5
130°	499.2	508.9	507.4	505.9	502.9
132.5°	533.6	541.1	541.8	538.1	535.9
135°	563.5	571.8	573.3	572.5	570.3
137.5°	596.5	603.2	604.7	604.0	601.0
140°	625.7	632.4	636.1	636.1	633.1
142.5°	655.6	662.3	664.6	665.3	662.3
145°	684.0	689.3	693.8	694.5	691.5
147.5°	709.5	716.2	719.2	720.7	717.7
150°	735.7	740.2	743.2	745.4	743.2
152.5°	758.9	763.4	767.1	770.1	767.1
155°	782.1	784.3	786.6	790.3	788.1
157.5°	802.3	803.8	805.3	810.5	806.8
160°	820.2	821.7	822.5	827.0	824.0
162.5°	836.7	836.7	837.5	842.7	839.0
165°	850.9	850.2	850.2	855.4	851.7
167.5°	863.7	861.4	861.4	866.6	862.9
170°	873.4	871.1	870.4	875.6	871.1
172.5°	880.1	877.9	877.1	882.4	877.9
175°	885.4	883.1	881.6	886.9	882.4
177.5°	888.4	886.1	884.6	889.1	884.6
180°	886.9	886.9	886.9	886.9	886.9

(END OF REPORT)