

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: P1029554

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029554
REPORT IS A COMBINATION OF REPORTS P986223 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-D_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

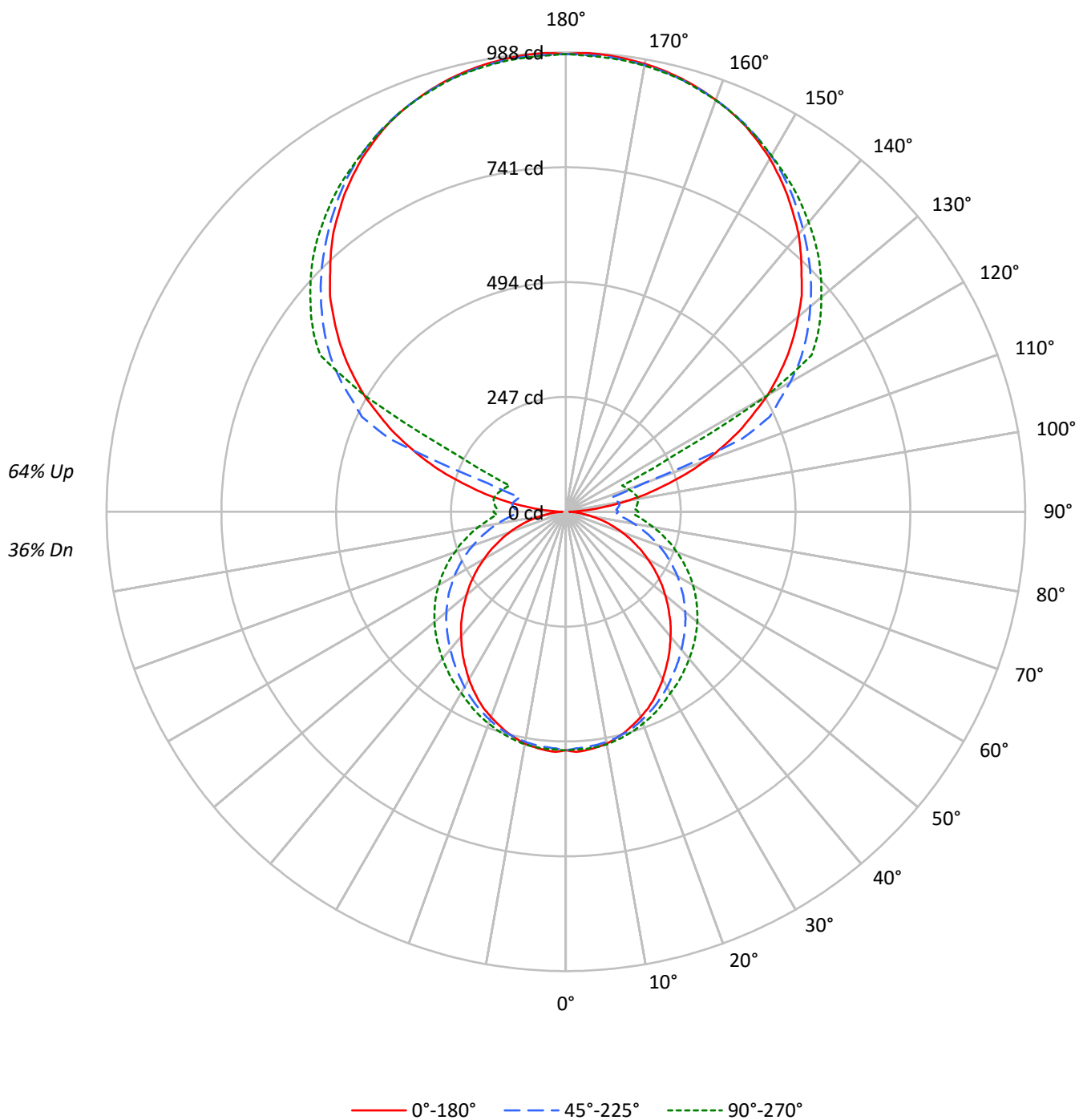
Lumens per Lamp: N/A
Luminaire Lumens: 4845.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43
1	94	89	85	81	84	80	77	74	64	62	60	50	48	47	36	35	34
2	85	77	71	65	76	70	64	59	56	52	48	43	40	38	31	30	28
3	77	67	60	54	69	61	54	49	49	44	40	38	34	32	27	25	23
4	70	59	51	45	63	54	47	41	43	38	34	33	30	27	24	22	20
5	64	52	44	38	58	48	40	35	38	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	35	30	34	29	25	27	23	20	20	17	15
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10
10	44	32	24	20	39	29	23	18	24	19	15	19	15	12	14	11	9

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	1.0
10°-20°	139.5	2.9
20°-30°	211.4	4.4
30°-40°	257.4	5.3
40°-50°	277.0	5.7
50°-60°	269.0	5.6
60°-70°	234.9	4.8
70°-80°	180.8	3.7
80°-90°	122.8	2.5
90°-100°	116.0	2.4
100°-110°	182.0	3.8
110°-120°	361.1	7.5
120°-130°	554.6	11.4
130°-140°	574.7	11.9
140°-150°	526.9	10.9
150°-160°	422.4	8.7
160°-170°	272.2	5.6
170°-180°	93.7	1.9
0°-30°	399.6	8.2
0°-40°	657.0	13.6
0°-60°	1202.9	24.8
0°-90°	1741.4	35.9
90°-120°	659.1	13.6
90°-150°	2315.4	47.8
90°-180°	3104.0	64.1
0°-180°	4845.0	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	59	112	146	156	8
95°	52	64	113	145	153	59
105°	220	263	107	141	152	236
115°	412	433	484	177	134	406
125°	580	590	627	652	661	518
135°	717	728	742	765	770	554
145°	831	830	842	852	852	520
155°	915	909	917	922	916	422
165°	964	960	962	967	962	272
175°	986	981	983	988	981	94
180°	984	984	984	984	984	

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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°	8.1	59.1	112.4	145.7	156.0
92.5°	24.5	61.1	108.6	139.0	148.6
95°	52.2	63.7	113.3	145.1	153.3
97.5°	88.5	62.1	116.6	146.3	156.0
100°	131.2	61.2	115.0	148.2	157.8
102.5°	177.6	200.6	111.2	145.7	156.1
105°	220.2	263.2	107.4	141.3	152.3
107.5°	270.8	306.5	103.7	136.7	147.7
110°	318.5	348.2	178.9	131.5	142.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.1	388.8	410.9	127.7	138.1
115°	412.5	432.8	484.0	176.6	133.5
117.5°	453.7	473.9	517.2	437.7	258.6
120°	500.7	514.4	557.0	586.3	498.4
122.5°	540.6	552.8	594.5	618.9	626.3
125°	580.5	589.7	627.1	652.1	661.0
127.5°	617.5	626.7	657.5	683.2	690.6
130°	652.4	663.0	686.5	712.2	717.4
132.5°	688.0	696.5	715.5	739.0	744.3
135°	717.1	728.5	742.4	765.1	769.6
137.5°	748.4	757.0	767.9	789.1	792.2
140°	779.1	784.1	793.4	811.7	812.5
142.5°	804.7	809.0	818.3	832.8	833.0
145°	831.1	830.4	842.5	851.9	852.1
147.5°	854.6	852.4	864.5	868.8	868.3
150°	877.4	872.4	883.8	888.0	884.5
152.5°	896.6	890.9	901.6	905.8	900.9
155°	915.1	908.7	917.2	921.5	915.8
157.5°	930.1	924.4	930.8	935.8	930.1
160°	942.9	938.6	942.9	947.1	942.2
162.5°	954.3	950.0	953.6	958.5	952.1
165°	964.2	960.0	962.1	967.1	962.1
167.5°	972.1	967.8	969.9	974.9	968.5
170°	978.5	974.2	975.6	980.6	974.2
172.5°	982.8	978.5	979.9	984.9	978.5
175°	986.3	981.3	982.8	987.7	980.6
177.5°	987.7	982.8	983.5	988.5	982.0
180°	984.2	984.2	984.2	984.2	984.2

(END OF REPORT)