

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: P1029556

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029556
REPORT IS A COMBINATION OF REPORTS P986225 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_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

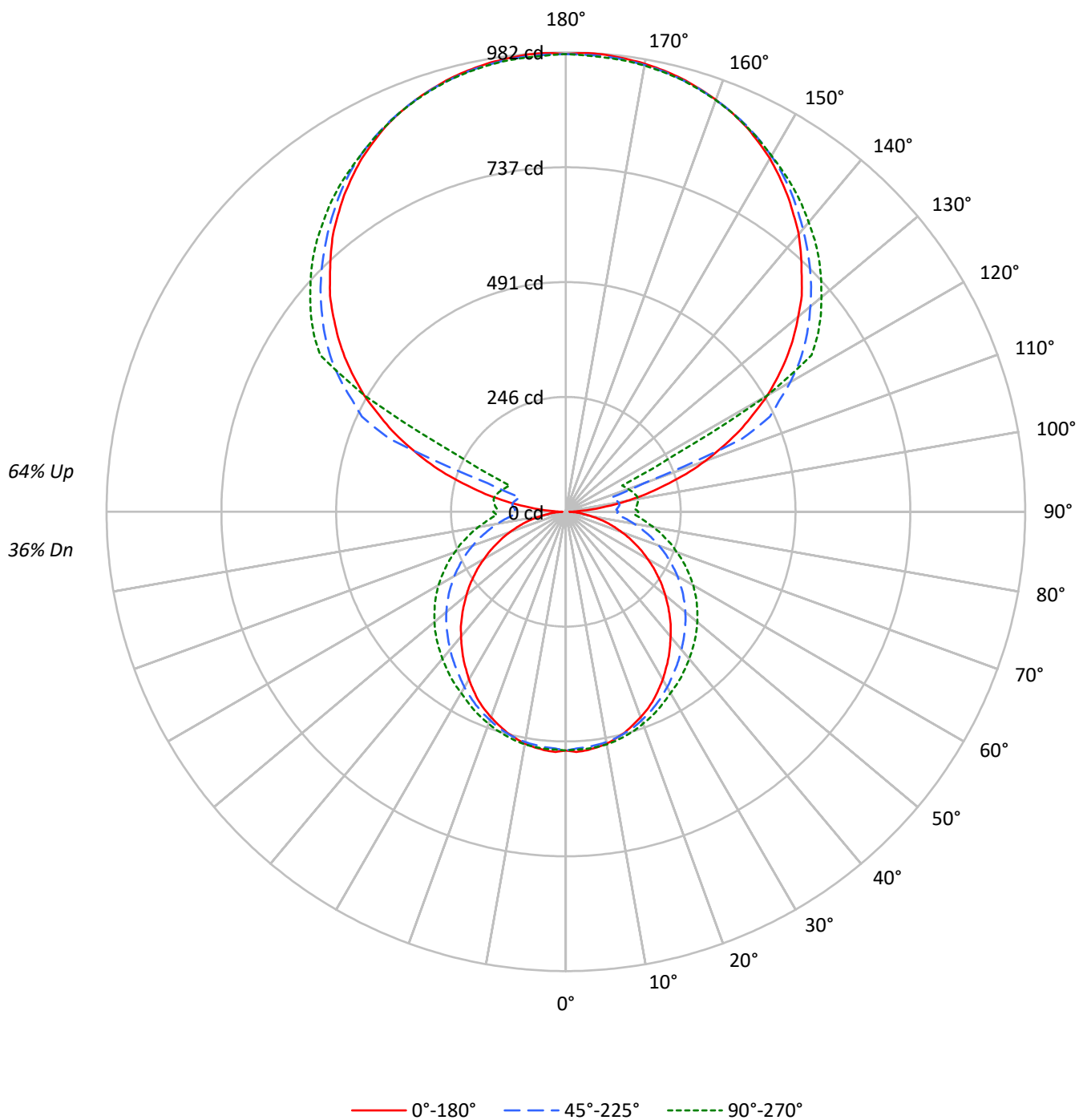
Lumens per Lamp: N/A
Luminaire Lumens: 4817.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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		28	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°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.0
10°-20°	138.7	2.9
20°-30°	210.2	4.4
30°-40°	256.0	5.3
40°-50°	275.4	5.7
50°-60°	267.5	5.6
60°-70°	233.6	4.8
70°-80°	179.8	3.7
80°-90°	122.1	2.5
90°-100°	115.3	2.4
100°-110°	180.9	3.8
110°-120°	359.0	7.5
120°-130°	551.3	11.4
130°-140°	571.3	11.9
140°-150°	523.8	10.9
150°-160°	419.9	8.7
160°-170°	270.6	5.6
170°-180°	93.1	1.9
0°-30°	397.3	8.2
0°-40°	653.3	13.6
0°-60°	1196.2	24.8
0°-90°	1731.7	35.9
90°-120°	655.3	13.6
90°-150°	2301.8	47.8
90°-180°	3085.0	64.0
0°-180°	4817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	59	112	145	155	8
95°	52	63	113	144	152	59
105°	219	262	107	140	151	234
115°	410	430	481	176	133	403
125°	577	586	623	648	657	515
135°	713	724	738	761	765	551
145°	826	826	838	847	847	517
155°	910	903	912	916	910	419
165°	959	954	956	961	956	271
175°	980	976	977	982	975	93
180°	978	978	978	978	978	

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CATALOG NUMBER: S122DIW-B485D710UB2750-4F0-XX-W2A-D_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.1	58.8	111.8	144.9	155.2
92.5°	24.4	60.8	108.0	138.2	147.8
95°	51.9	63.4	112.6	144.2	152.4
97.5°	88.0	61.8	116.0	145.4	155.0
100°	130.5	60.8	114.4	147.3	156.8
102.5°	176.4	199.4	110.6	145.0	155.2
105°	218.9	261.6	106.8	140.5	151.4
107.5°	269.2	304.6	103.0	136.0	146.9
110°	316.6	346.2	177.9	130.7	141.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.9	386.5	408.4	127.0	137.2
115°	410.1	430.2	481.2	175.6	132.8
117.5°	451.0	471.1	514.2	435.2	257.1
120°	497.8	511.4	553.7	582.9	495.4
122.5°	537.4	549.5	591.0	615.2	622.6
125°	577.1	586.3	623.3	648.3	657.1
127.5°	613.9	623.0	653.6	679.2	686.6
130°	648.6	659.1	682.5	708.0	713.2
132.5°	684.0	692.4	711.3	734.6	739.9
135°	712.9	724.2	738.0	760.7	765.2
137.5°	744.0	752.5	763.3	784.5	787.6
140°	774.5	779.5	788.7	806.9	807.8
142.5°	800.0	804.2	813.4	828.0	828.2
145°	826.2	825.5	837.5	846.9	847.0
147.5°	849.5	847.4	859.4	863.7	863.2
150°	872.2	867.2	878.6	882.8	879.3
152.5°	891.3	885.6	896.3	900.5	895.6
155°	909.7	903.3	911.8	916.1	910.4
157.5°	924.6	918.9	925.3	930.2	924.6
160°	937.3	933.1	937.3	941.6	936.6
162.5°	948.7	944.4	947.9	952.9	946.5
165°	958.6	954.3	956.4	961.4	956.4
167.5°	966.3	962.1	964.2	969.2	962.8
170°	972.7	968.5	969.9	974.8	968.5
172.5°	977.0	972.7	974.1	979.1	972.7
175°	980.5	975.6	977.0	981.9	974.8
177.5°	981.9	977.0	977.7	982.6	976.3
180°	978.4	978.4	978.4	978.4	978.4

(END OF REPORT)