

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: P1029401

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029401
REPORT IS A COMBINATION OF REPORTS P985762 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D710UB2750-4F0-XX-W2A-D1_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

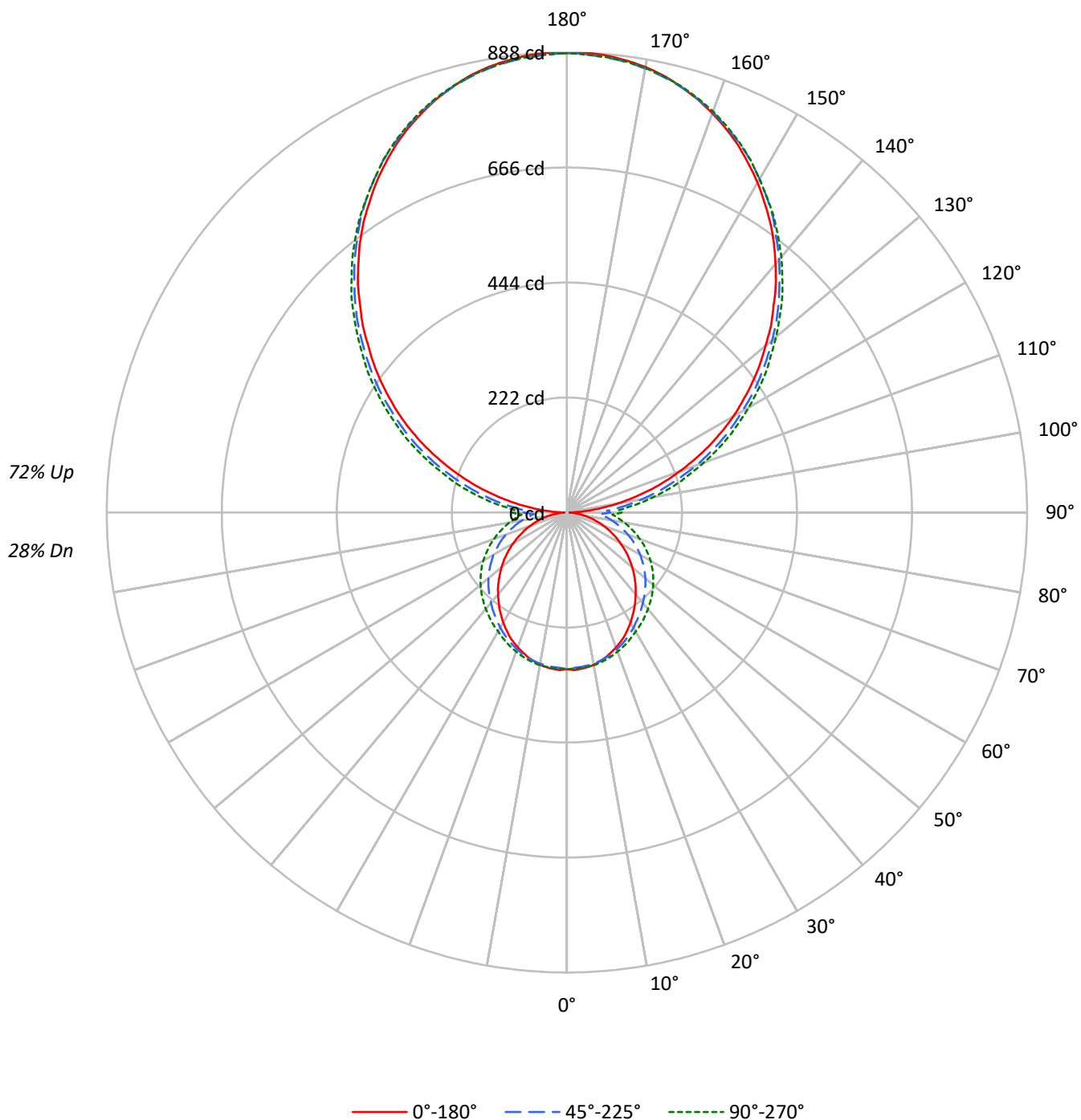
Lumens per Lamp: N/A
Luminaire Lumens: 3636.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28		
1	92	87	83	80	82	78	75	72	61	59	56	45	44	42	31	30	29	22		
2	83	76	70	64	74	68	63	58	53	49	46	39	37	35	26	25	24	18		
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20	15		
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17	12		
5	63	52	44	38	56	46	40	34	36	31	28	27	24	21	18	16	14	11		
6	58	46	38	32	52	42	35	30	33	28	24	24	21	18	17	14	12	9		
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11	8		
8	50	37	30	25	44	34	27	22	27	22	18	20	17	14	14	11	10	7		
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9	6		
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.8
10°-20°	82.2	2.3
20°-30°	124.6	3.4
30°-40°	151.7	4.2
40°-50°	163.2	4.5
50°-60°	158.5	4.4
60°-70°	138.4	3.8
70°-80°	106.6	2.9
80°-90°	73.9	2.0
90°-100°	104.1	2.9
100°-110°	210.4	5.8
110°-120°	322.2	8.9
120°-130°	405.7	11.2
130°-140°	446.1	12.3
140°-150°	433.0	11.9
150°-160°	362.4	10.0
160°-170°	240.3	6.6
170°-180°	84.0	2.3
0°-30°	235.5	6.5
0°-40°	387.2	10.6
0°-60°	709.0	19.5
0°-90°	1027.9	28.3
90°-120°	636.6	17.5
90°-150°	1921.4	52.8
90°-180°	2608.0	71.7
0°-180°	3636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	40	84	100	106	6
95°	42	70	98	115	119	46
105°	163	178	202	219	224	172
115°	301	310	329	341	344	298
125°	436	443	455	464	468	390
135°	564	572	578	586	588	436
145°	684	689	694	697	696	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°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.1	39.5	84.1	100.1	106.1
92.5°	20.4	49.7	77.1	94.9	100.2
95°	42.4	70.5	98.3	115.0	118.7
97.5°	68.2	93.7	122.1	138.4	143.6
100°	98.1	120.3	147.1	163.3	167.4
102.5°	129.1	148.1	174.8	191.2	195.4
105°	163.1	178.1	202.3	219.1	224.0
107.5°	197.5	211.0	232.9	248.6	249.7
110°	230.1	243.3	264.8	278.8	281.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.0	277.5	296.8	308.7	312.0
115°	301.2	310.5	328.7	341.0	343.7
117.5°	335.8	345.3	360.0	370.9	373.1
120°	371.0	378.8	390.3	402.6	405.2
122.5°	403.2	411.2	423.6	433.2	435.7
125°	436.5	443.2	455.0	464.5	467.8
127.5°	469.4	477.1	486.0	493.9	495.7
130°	500.1	509.3	517.0	526.1	526.6
132.5°	534.5	541.5	548.8	555.2	556.5
135°	563.9	572.2	578.1	586.5	587.8
137.5°	596.9	603.6	607.3	615.0	615.0
140°	626.1	632.4	637.0	644.0	643.6
142.5°	656.0	662.3	664.6	670.6	669.8
145°	684.0	689.3	693.8	697.1	696.3
147.5°	709.5	716.2	719.2	721.1	719.5
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)