

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: P1029410

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029410
REPORT IS A COMBINATION OF REPORTS P985776 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-D_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

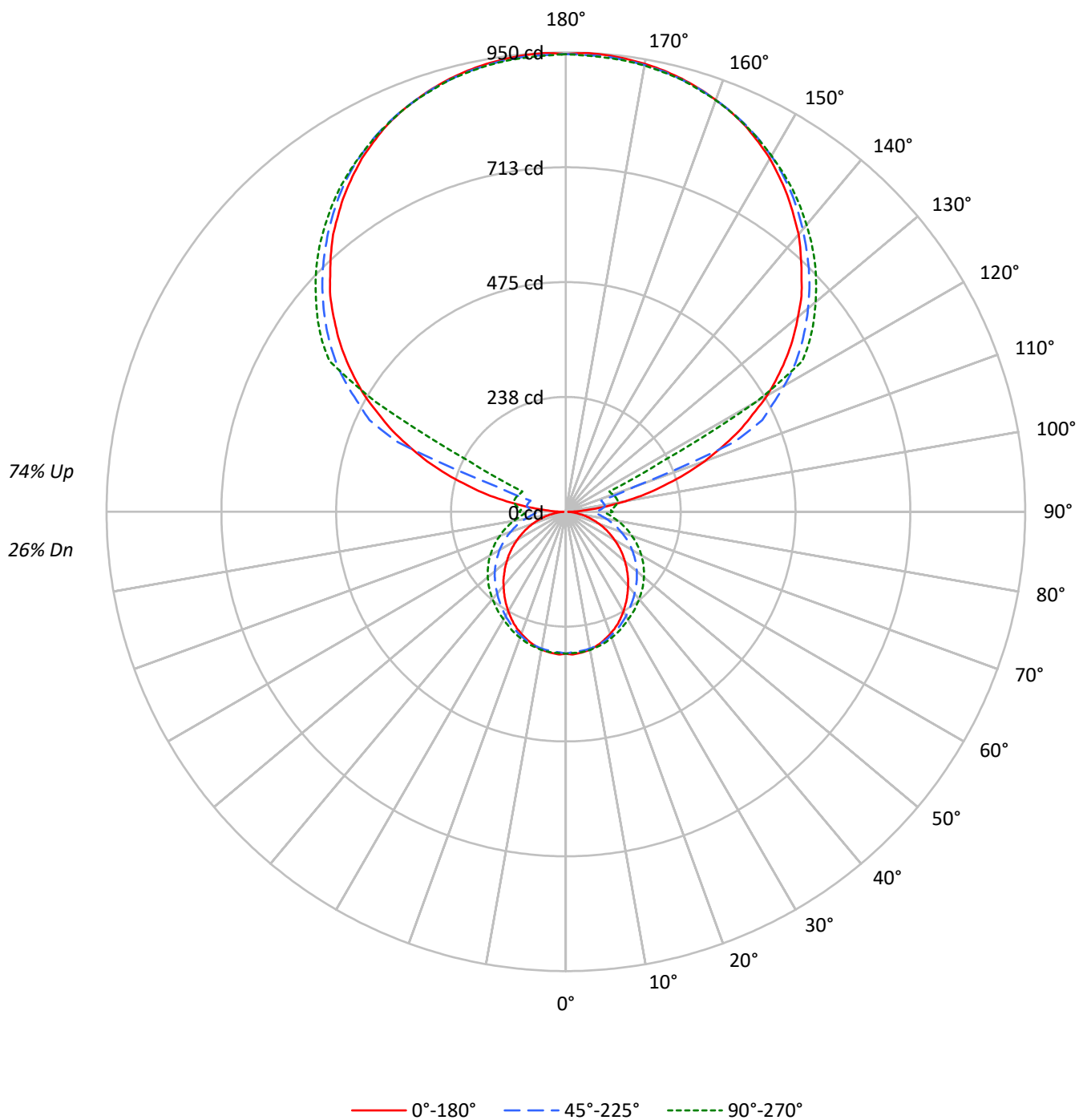
Lumens per Lamp: N/A
Luminaire Lumens: 3895.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26		
1	92	87	83	79	81	78	74	71	60	58	55	44	42	41	28	28	27	20		
2	83	76	69	64	74	67	62	58	52	48	45	38	35	33	25	23	22	16		
3	75	66	59	53	67	59	53	48	45	41	38	33	30	28	22	20	18	13		
4	69	58	50	44	61	52	45	40	40	35	32	29	26	24	19	17	16	11		
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13	10		
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	12	8		
7	53	41	34	28	47	37	30	25	29	24	20	21	18	15	14	12	10	7		
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	13	11	9	6		
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8	6		
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.7
10°-20°	79.7	2.0
20°-30°	120.8	3.1
30°-40°	147.1	3.8
40°-50°	158.3	4.1
50°-60°	153.7	3.9
60°-70°	134.3	3.4
70°-80°	103.3	2.7
80°-90°	70.9	1.8
90°-100°	79.0	2.0
100°-110°	151.2	3.9
110°-120°	331.6	8.5
120°-130°	524.5	13.5
130°-140°	548.9	14.1
140°-150°	506.1	13.0
150°-160°	406.1	10.4
160°-170°	261.7	6.7
170°-180°	90.1	2.3
0°-30°	228.3	5.9
0°-40°	375.5	9.6
0°-60°	687.5	17.6
0°-90°	995.9	25.6
90°-120°	561.7	14.4
90°-150°	2141.2	55.0
90°-180°	2899.0	74.4
0°-180°	3895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	37	70	90	97	6
95°	48	45	76	95	100	55
105°	210	243	78	101	108	225
115°	395	412	448	144	99	389
125°	558	566	593	609	615	497
135°	689	700	711	726	728	533
145°	799	798	810	818	816	500
155°	880	874	882	886	881	405
165°	927	923	925	930	925	262
175°	948	944	945	950	943	90
180°	946	946	946	946	946	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.0	37.1	69.8	90.2	96.7
92.5°	20.9	40.8	68.7	86.7	92.5
95°	47.9	45.3	75.6	95.1	99.5
97.5°	83.1	45.3	80.8	98.6	104.4
100°	124.2	46.1	81.5	102.7	108.8
102.5°	169.0	181.6	79.9	102.7	109.5
105°	210.3	243.2	78.4	100.7	108.1
107.5°	258.9	286.2	76.7	98.7	106.1
110°	305.0	327.9	150.8	96.0	103.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.9	368.0	376.0	94.4	101.1
115°	395.4	411.8	448.0	143.8	99.1
117.5°	435.4	452.5	482.0	396.9	221.6
120°	480.6	492.6	521.9	542.0	454.3
122.5°	519.0	530.3	559.7	575.3	579.8
125°	557.6	566.5	593.1	609.3	615.3
127.5°	593.2	602.3	624.1	641.5	646.1
130°	626.8	637.2	653.8	671.5	674.2
132.5°	661.0	669.4	683.3	699.3	702.0
135°	689.3	700.2	710.7	726.4	728.5
137.5°	719.4	727.6	736.7	751.5	752.5
140°	748.8	753.9	762.4	775.3	774.4
142.5°	773.5	777.9	786.8	797.4	796.0
145°	799.1	798.4	810.1	817.5	816.1
147.5°	821.7	819.7	831.3	835.1	833.7
150°	843.6	838.8	849.8	853.9	850.5
152.5°	862.1	856.6	866.9	871.0	866.2
155°	879.9	873.8	882.0	886.1	880.6
157.5°	894.3	888.8	895.0	899.8	894.3
160°	906.6	902.5	906.6	910.7	905.9
162.5°	917.6	913.5	916.9	921.7	915.5
165°	927.2	923.1	925.1	929.9	925.1
167.5°	934.7	930.6	932.6	937.4	931.3
170°	940.9	936.8	938.1	942.9	936.8
172.5°	945.0	940.9	942.2	947.0	940.9
175°	948.4	943.6	945.0	949.8	942.9
177.5°	949.8	945.0	945.7	950.4	944.3
180°	946.3	946.3	946.3	946.3	946.3

(END OF REPORT)