

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: P1035487

Luminaire Tested: S125DIW-B610D470UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035487
REPORT IS A COMBINATION OF REPORTS P1003958 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

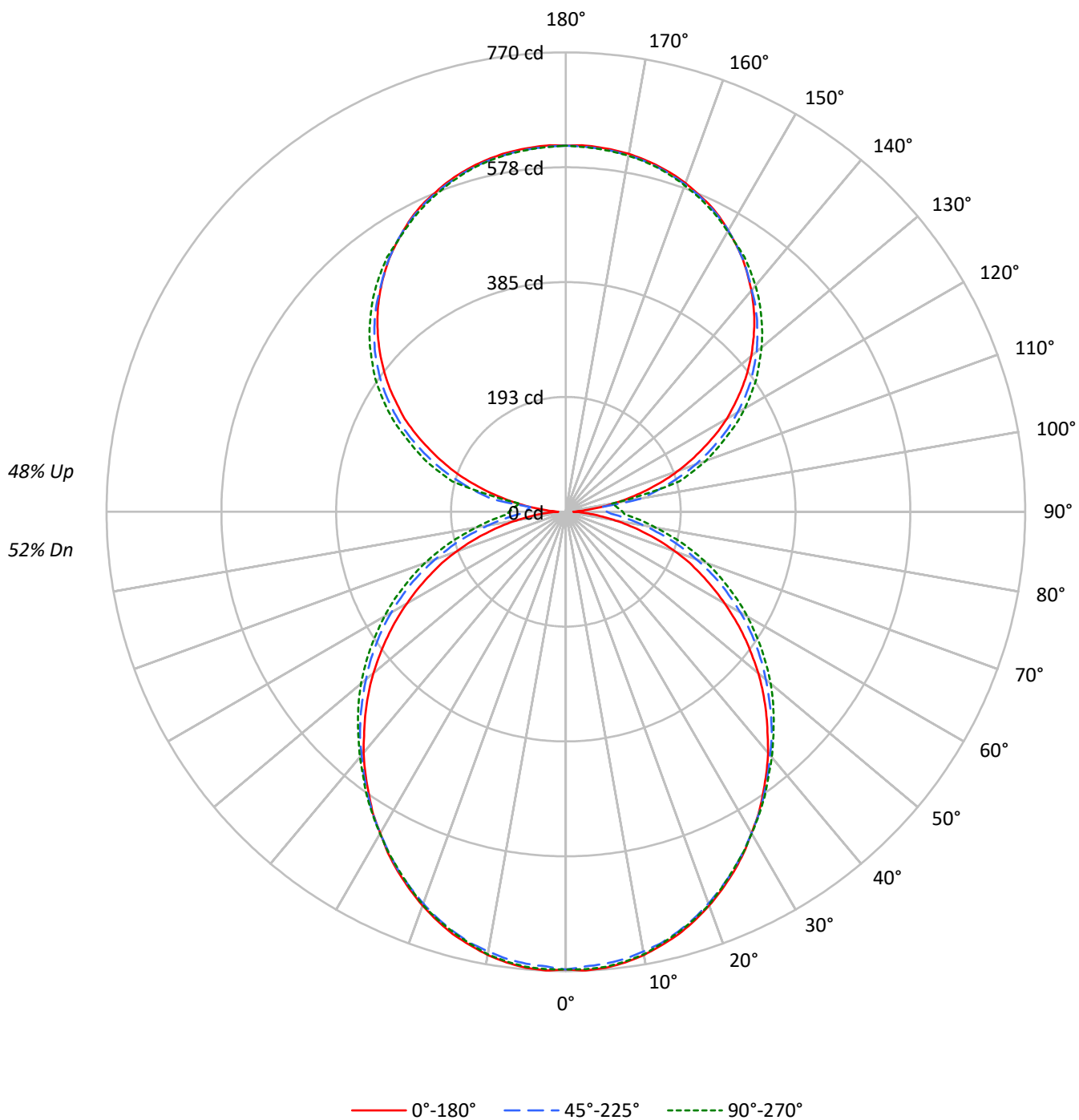
Lumens per Lamp: N/A
Luminaire Lumens: 4263.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	93	89	85	90	86	82	79	73	70	68	61	59	58	50	49	48
2	89	81	74	69	82	75	69	64	64	59	56	53	50	47	44	42	40
3	81	71	63	57	74	66	59	53	56	51	46	47	43	40	39	36	33
4	74	62	54	48	68	58	51	45	49	44	39	42	37	34	34	31	29
5	67	55	47	41	62	52	44	39	44	38	34	37	33	29	31	27	25
6	62	50	41	35	57	46	39	33	40	34	29	34	29	26	28	24	22
7	57	45	37	31	53	42	34	29	36	30	26	31	26	23	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17
9	50	37	29	24	46	35	28	23	30	24	20	26	21	18	22	18	15
10	46	34	27	22	43	32	25	21	28	22	18	24	19	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.7
10°-20°	206.1	4.8
20°-30°	306.5	7.2
30°-40°	363.0	8.5
40°-50°	375.3	8.8
50°-60°	345.7	8.1
60°-70°	279.5	6.6
70°-80°	187.0	4.4
80°-90°	97.6	2.3
90°-100°	75.3	1.8
100°-110°	178.6	4.2
110°-120°	276.3	6.5
120°-130°	335.3	7.9
130°-140°	351.0	8.2
140°-150°	324.5	7.6
150°-160°	261.4	6.1
160°-170°	169.1	4.0
170°-180°	58.3	1.4
0°-30°	585.2	13.7
0°-40°	948.2	22.2
0°-60°	1669.2	39.2
0°-90°	2233.3	52.4
90°-120°	530.2	12.4
90°-150°	1541.0	36.1
90°-180°	2030.0	47.6
0°-180°	4263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	12	40	69	89	95	10
95°	36	54	62	81	86	39
105°	140	154	177	192	197	149
115°	256	263	283	295	297	253
125°	360	363	378	388	390	322
135°	447	449	453	462	463	345
145°	517	517	517	522	522	323
155°	569	566	567	568	564	262
165°	600	597	598	600	597	170
175°	614	611	611	615	611	58
180°	614	614	614	614	614	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	12.5	40.2	69.0	88.6	95.2
92.5°	19.1	36.8	66.0	84.8	90.5
95°	35.7	53.9	62.2	81.1	86.3
97.5°	57.7	78.5	60.1	76.8	82.6
100°	84.3	101.4	127.3	75.3	78.1
102.5°	111.2	127.3	151.5	167.6	133.8
105°	140.5	154.4	177.0	192.0	196.8
107.5°	170.7	181.2	204.0	219.4	222.1
110°	200.0	209.0	231.0	243.8	249.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.2	236.3	257.0	268.8	273.2
115°	255.6	263.2	283.1	294.9	296.7
117.5°	284.5	288.2	308.8	318.9	323.3
120°	311.8	313.5	332.2	344.1	346.3
122.5°	335.1	338.2	355.1	366.2	368.1
125°	360.1	362.6	377.6	387.8	390.2
127.5°	383.5	385.0	397.3	407.7	408.6
130°	405.4	406.8	417.8	427.0	428.4
132.5°	426.4	429.1	435.3	445.9	446.6
135°	446.9	448.9	453.2	462.1	463.1
137.5°	466.0	468.0	470.1	479.1	479.8
140°	483.9	484.8	485.1	494.3	494.6
142.5°	500.7	500.4	501.3	508.1	508.4
145°	517.1	517.2	517.2	521.5	521.8
147.5°	530.9	530.9	531.3	533.3	531.6
150°	544.5	543.6	544.5	545.4	542.6
152.5°	557.7	555.4	556.4	557.3	554.1
155°	568.6	565.9	566.8	568.2	564.5
157.5°	577.3	575.9	575.9	577.3	573.6
160°	586.4	583.7	584.1	585.9	582.3
162.5°	593.7	590.9	591.4	594.1	590.0
165°	600.0	597.3	597.8	600.5	596.8
167.5°	605.0	602.3	602.8	605.9	601.9
170°	609.1	605.9	606.4	610.0	605.9
172.5°	611.9	608.7	609.6	612.8	608.7
175°	613.7	610.9	611.4	615.0	610.9
177.5°	615.0	612.3	612.8	616.0	612.3
180°	613.7	613.7	613.7	613.7	613.7

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