

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: P1034589

Luminaire Tested: S125DIW-B610D470UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034589
REPORT IS A COMBINATION OF REPORTS P1003923 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB2750-4F0-XX-W2A-D1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

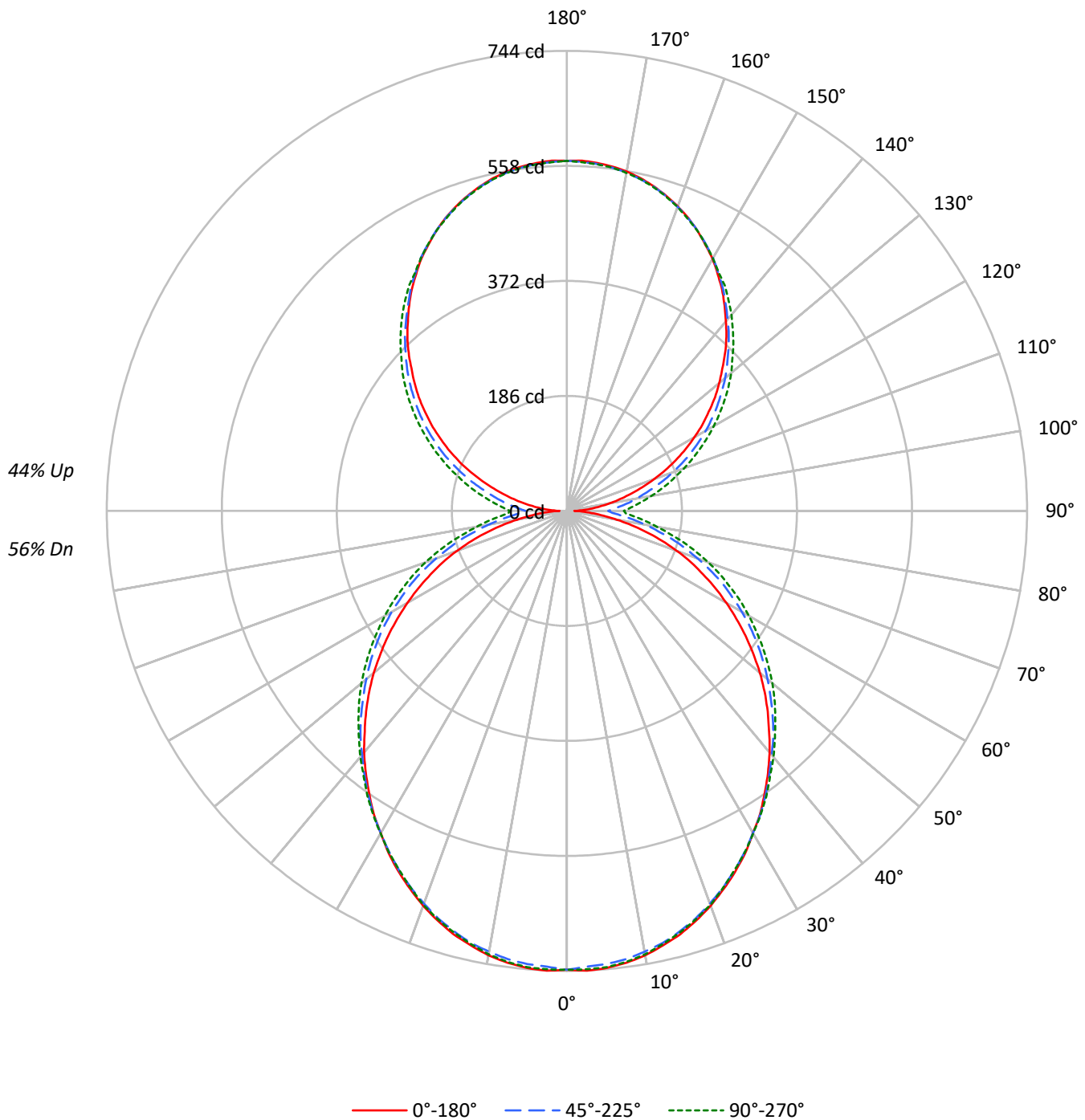
Lumens per Lamp: N/A
Luminaire Lumens: 3880.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	101	101	101	101	86	86	86	73	73	73	61	61	61
1	98	94	89	85	91	87	83	80	75	72	69	63	61	59	53	51	50
2	89	81	75	69	82	76	70	65	65	61	57	55	52	49	46	44	42
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	41	38	35
4	74	63	55	48	68	59	51	45	51	45	40	43	39	35	36	33	30
5	68	56	47	41	63	52	45	39	45	39	35	39	34	30	32	29	26
6	63	50	42	36	58	47	39	34	41	35	30	35	30	26	29	26	23
7	58	45	37	31	54	42	35	30	37	31	26	32	27	23	27	23	20
8	54	41	33	28	50	38	31	26	34	28	23	29	24	21	25	21	18
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	26	21	28	23	19	25	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

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°	70.2	1.8
10°-20°	199.4	5.1
20°-30°	296.5	7.6
30°-40°	351.1	9.0
40°-50°	363.0	9.4
50°-60°	334.4	8.6
60°-70°	270.3	7.0
70°-80°	180.9	4.7
80°-90°	94.4	2.4
90°-100°	90.3	2.3
100°-110°	150.7	3.9
110°-120°	215.7	5.6
120°-130°	264.4	6.8
130°-140°	286.3	7.4
140°-150°	275.5	7.1
150°-160°	230.4	5.9
160°-170°	153.1	3.9
170°-180°	53.6	1.4
0°-30°	566.0	14.6
0°-40°	917.1	23.6
0°-60°	1614.5	41.6
0°-90°	2160.0	55.7
90°-120°	456.7	11.8
90°-150°	1282.9	33.1
90°-180°	1720.0	44.3
0°-180°	3880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	12	39	67	86	92	10
95°	38	58	87	106	112	37
105°	107	121	145	162	169	114
115°	194	201	221	234	238	192
125°	280	282	297	308	311	251
135°	362	364	369	379	381	279
145°	437	438	440	443	445	273
155°	500	500	500	502	500	230
165°	543	542	543	545	542	153
175°	565	563	563	566	563	54
180°	566	566	566	566	566	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.0	38.9	66.7	85.7	92.1
92.5°	23.4	46.7	76.2	95.3	101.3
95°	38.1	57.9	87.0	106.1	112.1
97.5°	52.8	70.7	100.9	118.8	124.4
100°	69.7	85.0	114.0	133.2	138.5
102.5°	87.9	103.9	128.7	147.6	153.4
105°	107.0	120.9	145.3	162.5	169.0
107.5°	127.8	140.2	163.6	179.5	183.8
110°	149.6	160.5	182.2	197.4	202.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.5	179.9	201.4	214.9	219.1
115°	194.3	201.2	220.9	233.6	237.5
117.5°	216.4	220.5	239.6	252.4	255.7
120°	237.6	242.0	259.2	271.5	274.1
122.5°	259.8	260.9	278.2	289.5	292.6
125°	280.0	282.0	296.9	307.7	310.9
127.5°	301.8	302.4	315.2	325.6	329.1
130°	321.6	323.1	334.1	343.9	346.7
132.5°	340.8	344.7	351.5	361.2	362.8
135°	361.9	363.8	369.3	378.8	380.6
137.5°	381.7	383.6	387.4	396.6	397.3
140°	399.9	402.1	404.2	413.1	413.8
142.5°	418.8	419.9	421.6	428.6	429.4
145°	437.3	438.4	439.7	443.3	444.9
147.5°	453.8	455.1	456.0	458.8	456.7
150°	471.0	470.6	472.3	472.3	472.1
152.5°	485.1	486.0	486.4	487.7	486.0
155°	499.6	499.6	500.1	501.8	499.6
157.5°	512.9	512.0	512.4	514.2	511.1
160°	524.3	523.0	523.4	525.2	523.0
162.5°	534.4	533.6	533.6	535.8	533.1
165°	543.3	542.4	542.8	544.6	541.9
167.5°	551.2	549.4	549.4	552.1	549.4
170°	557.4	555.6	555.6	558.2	555.1
172.5°	561.8	560.0	560.0	562.6	560.0
175°	564.8	563.1	563.1	565.7	562.6
177.5°	567.0	565.3	564.8	567.5	564.4
180°	566.2	566.2	566.2	566.2	566.2

(END OF REPORT)