

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: P1035490

Luminaire Tested: S125DIW-B610D470UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035490
REPORT IS A COMBINATION OF REPORTS P1003962 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

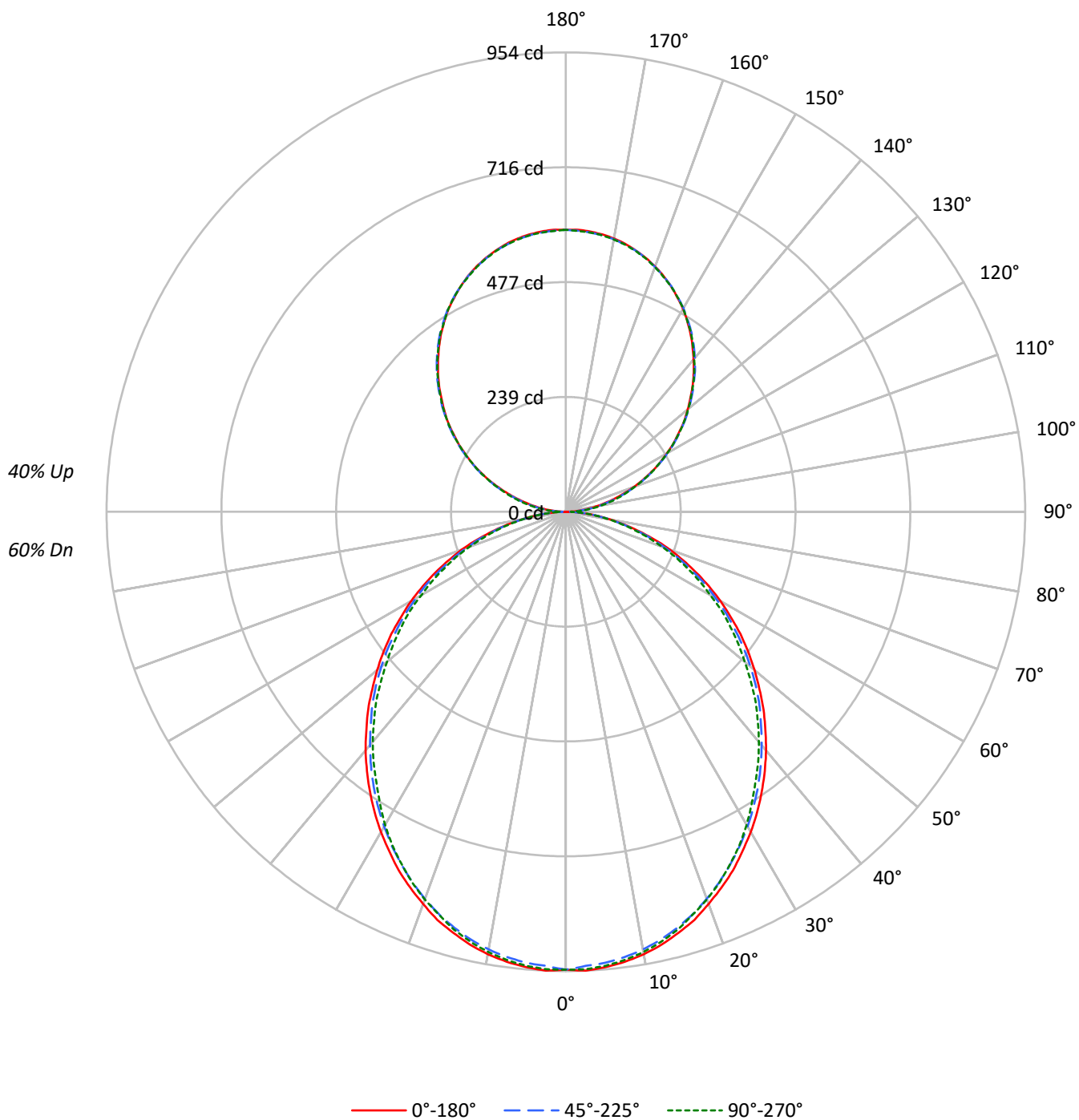
Lumens per Lamp: N/A
Luminaire Lumens: 4110.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	89	86	83	78	75	73	68	66	64	58	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	2.2
10°-20°	253.5	6.2
20°-30°	374.2	9.1
30°-40°	436.6	10.6
40°-50°	438.5	10.7
50°-60°	384.9	9.4
60°-70°	286.7	7.0
70°-80°	163.7	4.0
80°-90°	48.2	1.2
90°-100°	38.9	0.9
100°-110°	115.7	2.8
110°-120°	196.2	4.8
120°-130°	258.2	6.3
130°-140°	289.4	7.0
140°-150°	283.6	6.9
150°-160°	238.3	5.8
160°-170°	158.4	3.9
170°-180°	55.4	1.3
0°-30°	717.4	17.5
0°-40°	1154.0	28.1
0°-60°	1977.3	48.1
0°-90°	2475.9	60.2
90°-120°	350.8	8.5
90°-150°	1182.0	28.8
90°-180°	1634.0	39.8
0°-180°	4110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	0	4	7	10	11	5
95°	30	30	35	38	39	31
105°	104	106	109	112	113	111
115°	196	198	199	199	198	194
125°	287	289	290	289	288	257
135°	373	376	376	376	374	287
145°	452	453	455	455	453	282
155°	517	517	517	519	517	238
165°	562	561	561	563	560	159
175°	584	582	582	585	582	56
180°	586	586	586	586	586	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	0.5	4.1	7.3	9.6	10.9
92.5°	13.7	15.9	20.0	23.2	24.1
95°	29.6	30.5	35.1	38.3	39.2
97.5°	45.6	46.0	52.4	55.1	55.6
100°	63.8	63.8	69.7	73.8	74.7
102.5°	83.4	85.7	87.9	92.5	93.9
105°	103.9	106.2	108.9	111.6	113.0
107.5°	126.2	128.5	130.8	132.1	132.1
110°	149.5	151.7	153.1	154.5	154.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.1	174.1	175.9	176.3	175.4
115°	196.4	198.2	199.1	198.7	198.2
117.5°	220.1	220.5	221.4	221.9	220.1
120°	241.9	244.2	244.7	244.7	242.9
122.5°	265.6	266.1	267.5	267.0	265.6
125°	286.6	289.3	289.8	288.9	288.4
127.5°	309.8	311.2	311.7	311.2	310.3
130°	330.3	332.6	333.5	333.1	332.2
132.5°	350.8	354.9	354.5	354.0	352.7
135°	372.7	375.5	375.9	375.9	374.1
137.5°	393.2	396.0	396.9	397.3	395.0
140°	412.8	415.1	416.5	417.4	415.1
142.5°	432.4	434.2	436.1	436.5	434.2
145°	451.5	453.4	454.7	454.7	453.4
147.5°	469.3	470.7	471.6	473.0	469.3
150°	487.1	486.6	488.4	488.4	487.5
152.5°	501.7	502.6	503.0	504.4	502.6
155°	516.7	516.7	517.2	519.0	516.7
157.5°	530.4	529.5	529.9	531.7	528.5
160°	542.2	540.8	541.3	543.1	540.8
162.5°	552.7	551.8	551.8	554.1	551.3
165°	561.8	560.9	561.4	563.2	560.4
167.5°	570.0	568.2	568.2	570.9	568.2
170°	576.4	574.6	574.6	577.3	574.1
172.5°	580.9	579.1	579.1	581.9	579.1
175°	584.1	582.3	582.3	585.0	581.9
177.5°	586.4	584.6	584.1	586.9	583.7
180°	585.5	585.5	585.5	585.5	585.5

(END OF REPORT)