

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: P1036033

Luminaire Tested: S125RDIW-B610D470UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036033
REPORT IS A COMBINATION OF REPORTS P1006735 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D470UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

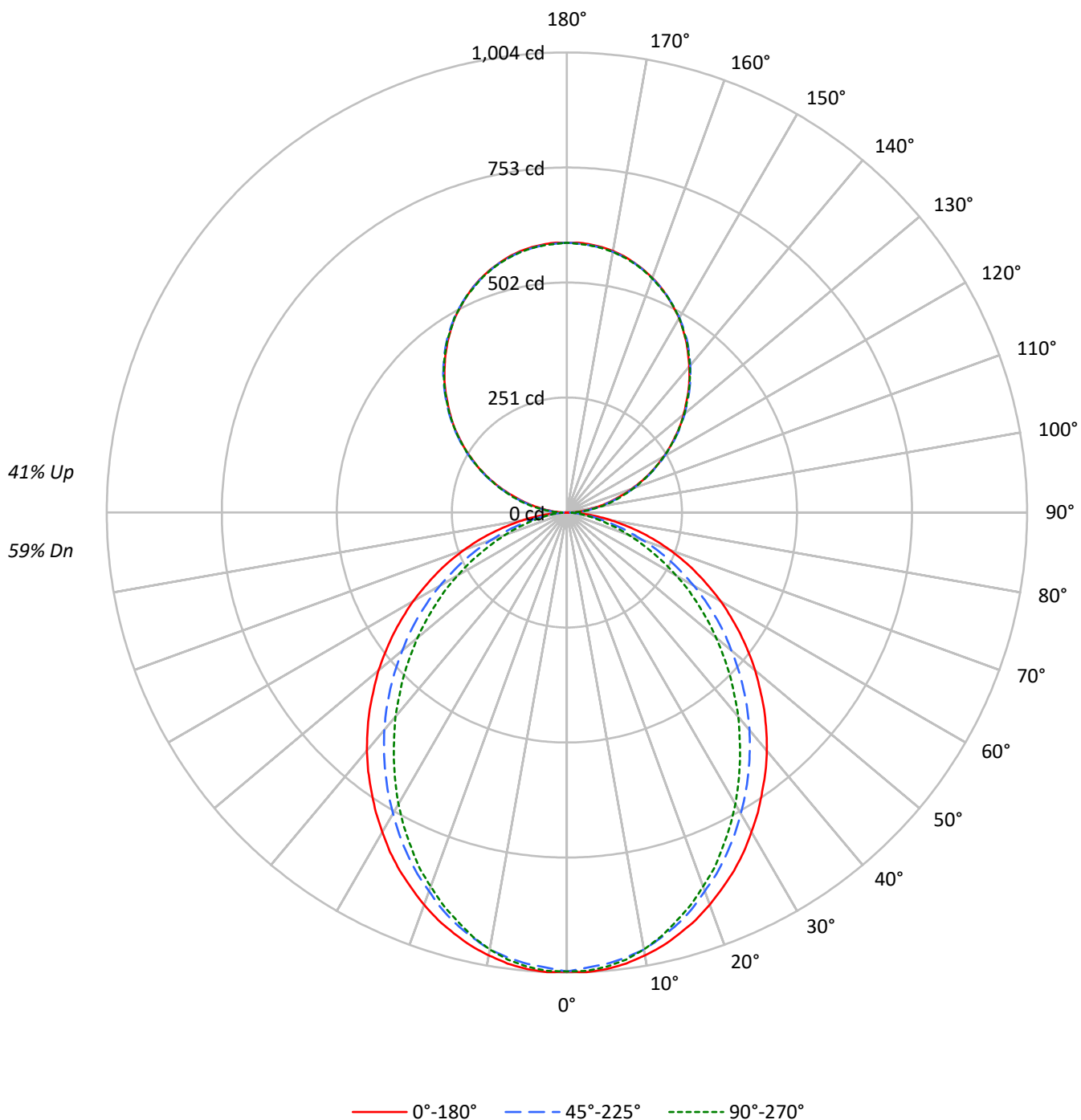
Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	83	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35	31
5	70	59	51	45	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	21
8	56	43	36	30	52	41	34	29	36	31	27	32	27	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	19	17
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.4
10°-20°	263.5	6.6
20°-30°	382.1	9.5
30°-40°	435.3	10.9
40°-50°	424.3	10.6
50°-60°	357.1	8.9
60°-70°	250.2	6.2
70°-80°	128.3	3.2
80°-90°	32.9	0.8
90°-100°	39.1	1.0
100°-110°	116.3	2.9
110°-120°	197.2	4.9
120°-130°	259.7	6.5
130°-140°	291.0	7.3
140°-150°	285.2	7.1
150°-160°	239.6	6.0
160°-170°	159.2	4.0
170°-180°	55.7	1.4
0°-30°	739.9	18.4
0°-40°	1175.2	29.3
0°-60°	1956.5	48.8
0°-90°	2367.9	59.0
90°-120°	352.7	8.8
90°-150°	1188.5	29.6
90°-180°	1643.0	41.0
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	0	4	7	10	11	4
95°	30	31	35	38	39	31
105°	104	107	110	112	114	111
115°	198	199	200	200	199	195
125°	288	291	291	290	290	258
135°	375	378	378	378	376	289
145°	454	456	457	457	456	284
155°	520	520	520	522	520	239
165°	565	564	564	566	564	159
175°	587	586	586	588	585	56
180°	589	589	589	589	589	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	0.5	4.1	7.3	9.6	11.0
92.5°	13.7	16.0	20.2	23.4	24.3
95°	29.8	30.7	35.3	38.5	39.4
97.5°	45.8	46.3	52.7	55.4	55.9
100°	64.1	64.1	70.1	74.2	75.1
102.5°	83.8	86.1	88.4	93.0	94.4
105°	104.5	106.7	109.5	112.2	113.6
107.5°	126.9	129.2	131.5	132.9	132.9
110°	150.3	152.6	153.9	155.3	154.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.1	175.0	176.8	177.3	176.4
115°	197.5	199.3	200.2	199.8	199.3
117.5°	221.3	221.7	222.7	223.1	221.3
120°	243.3	245.6	246.0	246.0	244.2
122.5°	267.1	267.6	268.9	268.5	267.1
125°	288.2	290.9	291.4	290.5	290.0
127.5°	311.5	312.9	313.4	312.9	312.0
130°	332.2	334.5	335.4	334.9	334.0
132.5°	352.8	356.9	356.4	356.0	354.6
135°	374.8	377.5	378.0	378.0	376.1
137.5°	395.4	398.1	399.1	399.5	397.2
140°	415.1	417.4	418.8	419.7	417.4
142.5°	434.8	436.6	438.5	438.9	436.6
145°	454.0	455.9	457.2	457.2	455.9
147.5°	471.9	473.3	474.2	475.6	471.9
150°	489.8	489.3	491.1	491.1	490.2
152.5°	504.4	505.3	505.8	507.2	505.3
155°	519.5	519.5	520.0	521.8	519.5
157.5°	533.3	532.4	532.8	534.7	531.5
160°	545.2	543.8	544.3	546.1	543.8
162.5°	555.7	554.8	554.8	557.1	554.4
165°	564.9	564.0	564.4	566.3	563.5
167.5°	573.1	571.3	571.3	574.1	571.3
170°	579.6	577.7	577.7	580.5	577.3
172.5°	584.1	582.3	582.3	585.1	582.3
175°	587.4	585.5	585.5	588.3	585.1
177.5°	589.6	587.8	587.4	590.1	586.9
180°	588.7	588.7	588.7	588.7	588.7

(END OF REPORT)