

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: P1036053

Luminaire Tested: S125RDIW-B610D770UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036053
REPORT IS A COMBINATION OF REPORTS P1006779 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D770UB30-4F0-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

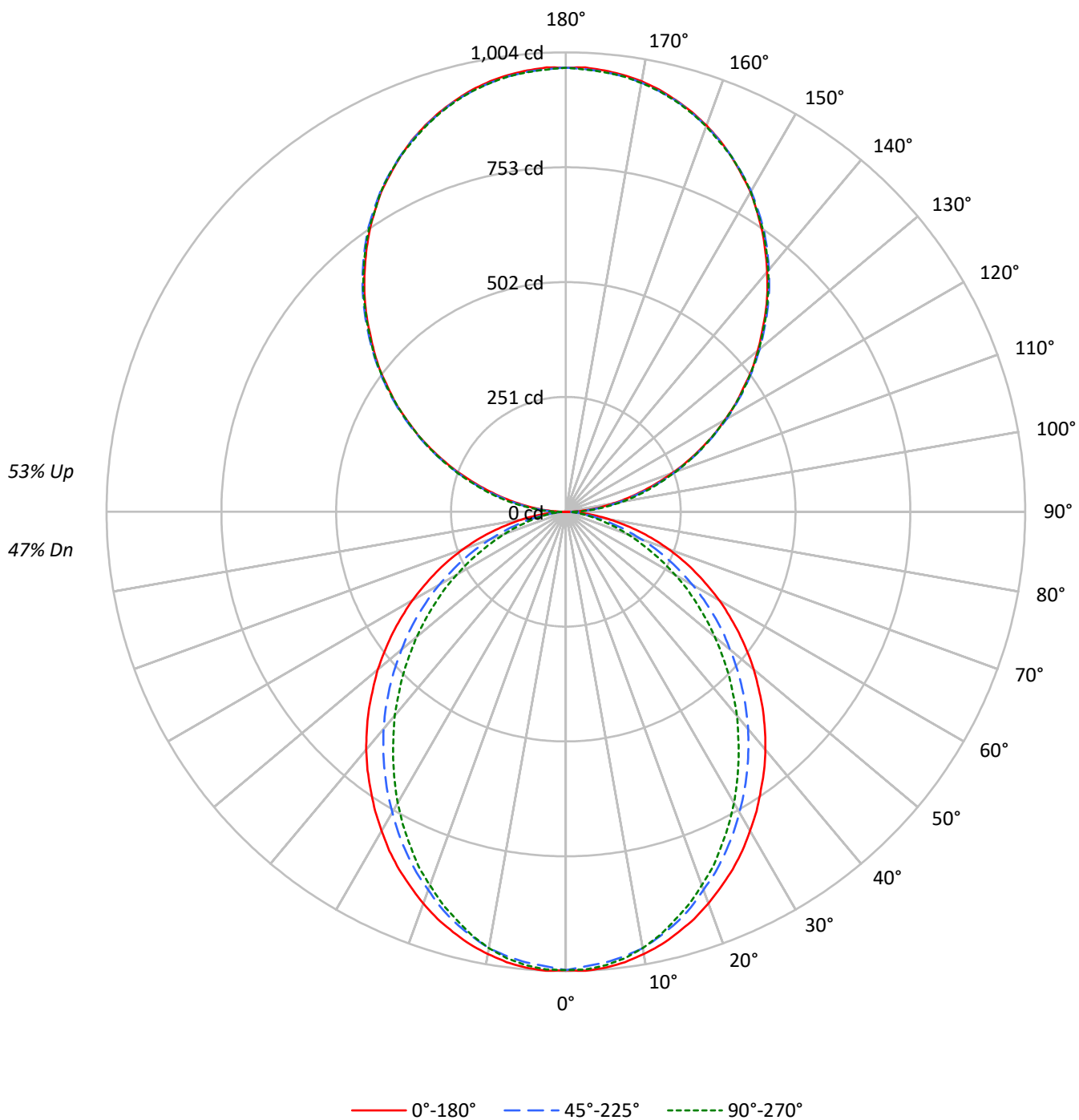
Lumens per Lamp: N/A
Luminaire Lumens: 5077.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 47.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47	47	47
1	97	93	89	86	89	86	82	79	72	69	67	59	57	56	47	46	45	40	40	40
2	89	81	75	70	81	75	70	66	63	59	56	52	49	47	42	40	38	34	34	34
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29	29	29
4	74	64	56	50	68	59	52	47	50	45	40	41	37	34	33	31	28	25	25	25
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	22	22	22
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	27	24	22	19	19	19
7	58	46	38	33	53	43	36	31	36	31	27	31	26	23	25	22	20	17	17	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14	14	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	13	13	13

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	1.9
10°-20°	263.5	5.2
20°-30°	382.1	7.5
30°-40°	435.3	8.6
40°-50°	424.3	8.4
50°-60°	357.1	7.0
60°-70°	250.2	4.9
70°-80°	128.3	2.5
80°-90°	33.5	0.7
90°-100°	64.5	1.3
100°-110°	191.7	3.8
110°-120°	325.1	6.4
120°-130°	428.0	8.4
130°-140°	479.7	9.4
140°-150°	470.1	9.3
150°-160°	394.9	7.8
160°-170°	262.5	5.2
170°-180°	91.9	1.8
0°-30°	739.9	14.6
0°-40°	1175.2	23.1
0°-60°	1956.5	38.5
0°-90°	2368.5	46.7
90°-120°	581.4	11.5
90°-150°	1959.2	38.6
90°-180°	2708.0	53.3
0°-180°	5077.0	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°	1	7	12	16	18	6
95°	49	51	58	63	65	51
105°	172	176	180	185	187	184
115°	326	328	330	329	328	322
125°	475	480	480	479	478	426
135°	618	622	623	623	620	476
145°	748	751	754	754	751	468
155°	856	856	857	860	856	394
165°	931	930	930	934	929	263
175°	968	965	965	970	964	92
180°	970	970	970	970	970	

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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°	0.8	6.8	12.1	15.9	18.1
92.5°	22.7	26.4	33.2	38.5	40.0
95°	49.1	50.6	58.2	63.4	64.9
97.5°	75.5	76.3	86.9	91.4	92.1
100°	105.7	105.7	115.5	122.3	123.9
102.5°	138.2	142.0	145.8	153.3	155.6
105°	172.2	176.0	180.5	185.0	187.3
107.5°	209.2	213.0	216.7	219.0	219.0
110°	247.7	251.5	253.8	256.0	255.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.0	288.5	291.5	292.3	290.8
115°	325.5	328.5	330.0	329.3	328.5
117.5°	364.8	365.5	367.0	367.8	364.8
120°	401.0	404.8	405.6	405.6	402.5
122.5°	440.3	441.1	443.3	442.6	440.3
125°	475.0	479.6	480.3	478.8	478.1
127.5°	513.6	515.8	516.6	515.8	514.3
130°	547.5	551.3	552.8	552.1	550.6
132.5°	581.5	588.3	587.6	586.8	584.5
135°	617.8	622.3	623.1	623.1	620.0
137.5°	651.8	656.3	657.8	658.6	654.8
140°	684.2	688.0	690.3	691.8	688.0
142.5°	716.7	719.7	722.8	723.5	719.7
145°	748.4	751.4	753.7	753.7	751.4
147.5°	777.9	780.1	781.7	783.9	777.9
150°	807.3	806.6	809.6	809.6	808.1
152.5°	831.5	833.0	833.8	836.0	833.0
155°	856.4	856.4	857.2	860.2	856.4
157.5°	879.1	877.6	878.3	881.3	876.1
160°	898.7	896.5	897.2	900.2	896.5
162.5°	916.1	914.6	914.6	918.4	913.8
165°	931.2	929.7	930.4	933.5	928.9
167.5°	944.8	941.8	941.8	946.3	941.8
170°	955.4	952.3	952.3	956.9	951.6
172.5°	962.9	959.9	959.9	964.4	959.9
175°	968.2	965.2	965.2	969.7	964.4
177.5°	972.0	969.0	968.2	972.7	967.4
180°	970.5	970.5	970.5	970.5	970.5

(END OF REPORT)