

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: P1034886

Luminaire Tested: S125RDIW-B610D770UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034886
REPORT IS A COMBINATION OF REPORTS P1006771 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D770UB2750-4F0-XX-W2A-F_3000K
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

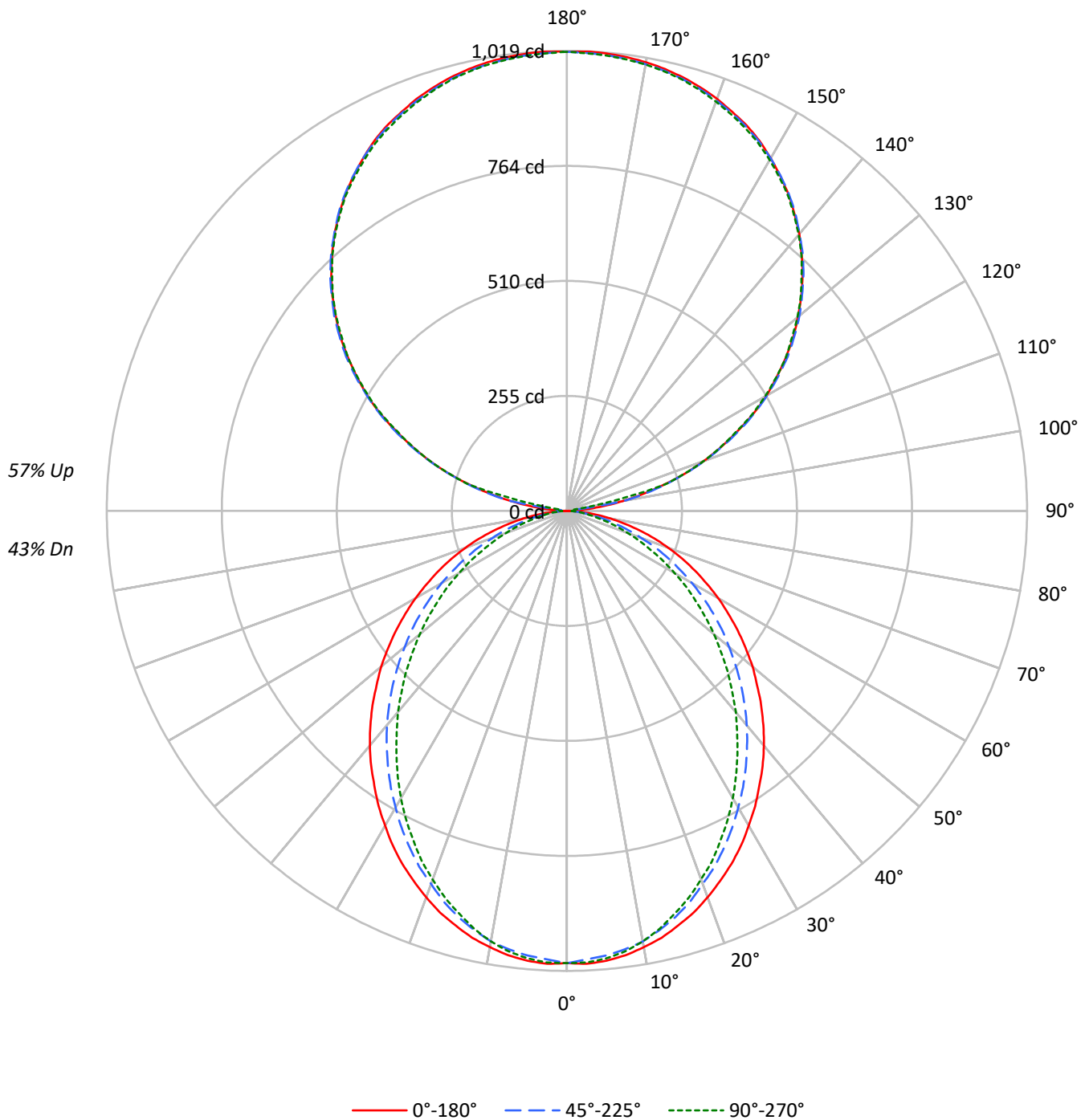
Lumens per Lamp: N/A
Luminaire Lumens: 5492.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				10			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	96	96	96	96	80	80	80	64	64	64	50	50	50	43		
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37		
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31		
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26		
4	74	63	55	49	67	58	51	46	48	43	39	40	36	33	31	29	27	23		
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23	20		
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	21	18		
7	58	45	38	32	52	42	35	30	35	30	26	29	25	22	23	21	18	16		
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	16	14		
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13		
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14	12		

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	1.7
10°-20°	263.5	4.8
20°-30°	382.1	7.0
30°-40°	435.3	7.9
40°-50°	424.3	7.7
50°-60°	357.1	6.5
60°-70°	250.2	4.6
70°-80°	128.3	2.3
80°-90°	33.5	0.6
90°-100°	34.5	0.6
100°-110°	229.5	4.2
110°-120°	413.3	7.5
120°-130°	530.4	9.7
130°-140°	570.5	10.4
140°-150°	535.5	9.7
150°-160°	433.1	7.9
160°-170°	280.1	5.1
170°-180°	96.6	1.8
0°-30°	739.9	13.5
0°-40°	1175.2	21.4
0°-60°	1956.5	35.6
0°-90°	2368.5	43.1
90°-120°	677.3	12.3
90°-150°	2313.7	42.1
90°-180°	3124.0	56.9
0°-180°	5492.0	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	5
95°	43	41	12	16	16	53
105°	222	225	225	225	224	235
115°	416	420	421	418	413	412
125°	592	597	597	594	592	529
135°	738	742	741	739	735	569
145°	856	857	857	858	853	535
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

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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	15.8	18.1
92.5°	14.3	7.5	12.1	15.8	16.6
95°	43.0	40.7	12.1	15.8	15.8
97.5°	80.7	85.2	13.6	15.1	15.8
100°	125.9	128.1	131.2	18.8	15.8
102.5°	171.9	174.9	176.4	177.9	114.6
105°	221.6	224.6	224.6	224.6	223.9
107.5°	272.9	272.9	274.4	275.1	272.1
110°	322.6	322.6	324.1	321.9	322.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.3	371.6	372.4	369.3	367.8
115°	416.1	419.8	420.6	417.6	413.1
117.5°	465.1	465.1	468.1	463.6	462.1
120°	510.3	509.5	511.8	510.3	506.5
122.5°	550.2	554.0	554.8	553.3	548.7
125°	591.7	597.0	597.0	594.0	591.7
127.5°	631.7	635.4	634.7	633.2	627.1
130°	667.8	671.6	672.4	670.1	666.3
132.5°	704.0	708.5	706.3	706.3	702.5
135°	737.9	742.5	741.0	739.4	734.9
137.5°	769.6	774.1	772.6	772.6	768.8
140°	800.5	802.0	801.3	802.8	798.2
142.5°	828.4	829.1	830.7	830.7	826.1
145°	855.5	857.0	857.0	857.8	853.3
147.5°	879.6	879.6	880.4	881.2	875.9
150°	902.3	900.8	902.3	903.8	897.7
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)