

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: P1036061

Luminaire Tested: S125RDIW-B610D770UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036061
REPORT IS A COMBINATION OF REPORTS P1006791 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D770UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

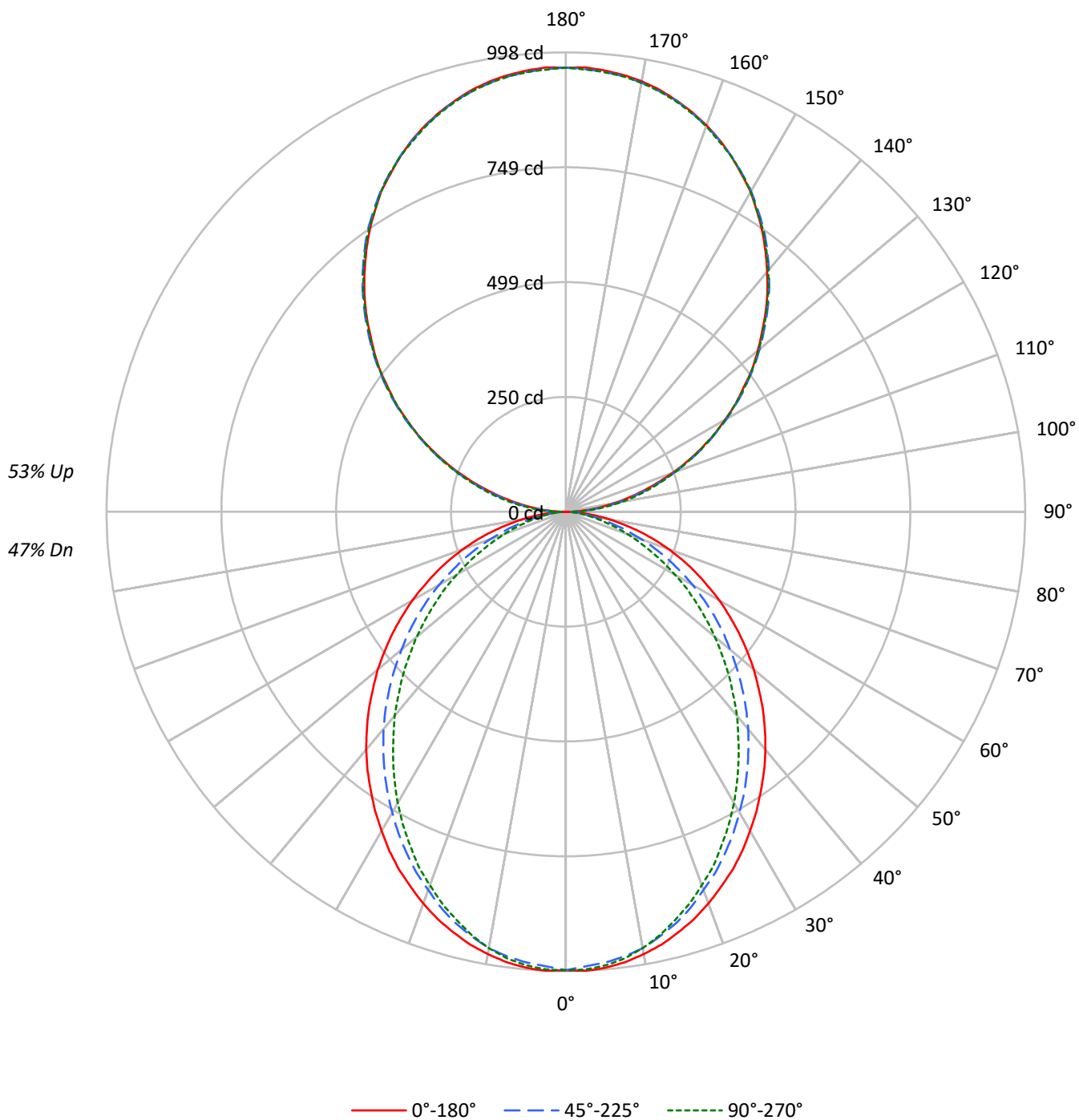
Lumens per Lamp: N/A
Luminaire Lumens: 5047.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6381	6381	6381
5°	6382	6222	6232
10°	6319	6065	6012
15°	6230	5846	5722
20°	6120	5582	5418
25°	5992	5324	5092
30°	5837	5041	4751
35°	5678	4753	4387
40°	5527	4457	4032
45°	5346	4138	3661
50°	5162	3799	3282
55°	4948	3466	2891
60°	4730	3084	2484
65°	4471	2657	2045
70°	4167	2163	1610
75°	3747	1626	1173
80°	3160	1054	791
85°	2367	567	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.9
10°-20°	261.9	5.2
20°-30°	379.8	7.5
30°-40°	432.7	8.6
40°-50°	421.8	8.4
50°-60°	355.0	7.0
60°-70°	248.7	4.9
70°-80°	127.5	2.5
80°-90°	33.3	0.7
90°-100°	64.2	1.3
100°-110°	190.6	3.8
110°-120°	323.2	6.4
120°-130°	425.5	8.4
130°-140°	476.8	9.4
140°-150°	467.4	9.3
150°-160°	392.6	7.8
160°-170°	261.0	5.2
170°-180°	91.3	1.8
0°-30°	735.5	14.6
0°-40°	1168.2	23.1
0°-60°	1944.9	38.5
0°-90°	2354.5	46.7
90°-120°	578.0	11.5
90°-150°	1947.6	38.6
90°-180°	2692.0	53.3
0°-180°	5047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	994	991	983	991	989	94
15°	946	941	925	924	918	267
25°	858	846	818	809	800	395
35°	739	721	687	665	654	463
45°	605	583	542	512	500	466
55°	459	435	393	359	347	410
65°	311	285	245	215	204	308
75°	166	143	111	95	90	175
85°	41	28	24	23	23	45
90°	1	7	12	16	18	6
95°	49	50	58	63	65	51
105°	171	175	179	184	186	183
115°	324	327	328	327	327	320
125°	472	477	478	476	475	423
135°	614	619	619	619	616	473
145°	744	747	749	749	747	465
155°	851	851	852	855	851	392
165°	926	924	925	928	923	261
175°	962	960	960	964	959	91
180°	965	965	965	965	965	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.9	995.9	995.9	995.9	995.9
2.5°	998.2	995.9	988.4	995.9	995.2
5°	994.4	991.4	983.1	990.7	989.1
7.5°	986.9	983.9	974.1	980.1	978.6
10°	975.6	973.4	962.8	965.1	962.8
12.5°	962.8	959.8	944.8	946.3	942.5
15°	945.5	941.0	925.2	924.5	917.7
17.5°	927.5	920.7	901.9	898.1	892.9
20°	905.7	898.1	874.1	870.3	863.5
22.5°	881.6	874.1	848.5	840.2	834.9
25°	857.5	846.2	818.4	808.6	800.3
27.5°	830.4	816.9	787.6	774.8	766.5
30°	800.3	786.1	754.5	737.2	730.4
32.5°	771.0	753.7	721.4	701.8	692.8
35°	738.7	720.6	686.8	664.9	654.4
37.5°	707.8	686.0	651.4	625.8	615.3
40°	674.7	652.2	616.1	587.5	578.4
42.5°	640.1	616.8	579.2	552.1	537.8
45°	604.8	583.0	541.6	511.5	500.2
47.5°	567.9	545.3	504.0	473.1	460.3
50°	533.3	508.5	465.6	434.0	422.7
52.5°	495.7	470.1	430.3	395.7	384.4
55°	458.8	434.8	392.7	358.8	346.8
57.5°	421.2	395.7	355.0	321.9	311.4
60°	385.1	358.8	318.2	285.1	273.8
62.5°	346.8	321.9	280.6	250.5	239.2
65°	310.7	285.1	245.2	215.1	203.8
67.5°	274.6	249.0	210.6	182.0	173.0
70°	237.7	212.1	174.5	151.2	142.2
72.5°	201.6	176.8	142.2	121.1	115.8
75°	165.5	142.9	111.3	94.8	89.5
77.5°	128.6	110.6	84.2	71.5	66.9
80°	97.8	79.7	58.7	51.9	50.4
82.5°	67.7	51.9	39.1	36.9	36.1
85°	41.4	27.8	24.1	23.3	22.6
87.5°	17.3	12.0	11.3	11.3	10.5
90°	0.8	6.8	12.0	15.8	18.0
92.5°	22.5	26.3	33.0	38.3	39.8
95°	48.8	50.3	57.8	63.1	64.6
97.5°	75.1	75.8	86.3	90.8	91.6
100°	105.1	105.1	114.9	121.6	123.1
102.5°	137.4	141.1	144.9	152.4	154.7
105°	171.2	174.9	179.4	183.9	186.2
107.5°	208.0	211.7	215.5	217.7	217.7
110°	246.3	250.0	252.3	254.5	253.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.3	286.8	289.8	290.5	289.0
115°	323.6	326.6	328.1	327.3	326.6
117.5°	362.6	363.4	364.9	365.6	362.6
120°	398.7	402.4	403.2	403.2	400.2
122.5°	437.7	438.4	440.7	439.9	437.7
125°	472.2	476.7	477.5	476.0	475.2
127.5°	510.5	512.8	513.5	512.8	511.3
130°	544.3	548.1	549.6	548.8	547.3
132.5°	578.1	584.8	584.1	583.3	581.1
135°	614.1	618.6	619.4	619.4	616.4
137.5°	647.9	652.4	653.9	654.7	650.9
140°	680.2	683.9	686.2	687.7	683.9
142.5°	712.5	715.5	718.5	719.2	715.5
145°	744.0	747.0	749.3	749.3	747.0
147.5°	773.3	775.5	777.0	779.3	773.3
150°	802.6	801.8	804.8	804.8	803.3
152.5°	826.6	828.1	828.8	831.1	828.1
155°	851.4	851.4	852.1	855.1	851.4
157.5°	873.9	872.4	873.1	876.1	870.9
160°	893.4	891.2	891.9	894.9	891.2
162.5°	910.7	909.2	909.2	912.9	908.4
165°	925.7	924.2	924.9	927.9	923.4
167.5°	939.2	936.2	936.2	940.7	936.2
170°	949.7	946.7	946.7	951.2	946.0
172.5°	957.2	954.2	954.2	958.7	954.2
175°	962.5	959.5	959.5	964.0	958.7
177.5°	966.2	963.2	962.5	967.0	961.7
180°	964.7	964.7	964.7	964.7	964.7

(END OF REPORT)