

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: P1035518

Luminaire Tested: S125DIW-B610D770UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035518
REPORT IS A COMBINATION OF REPORTS P1004025 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D770UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

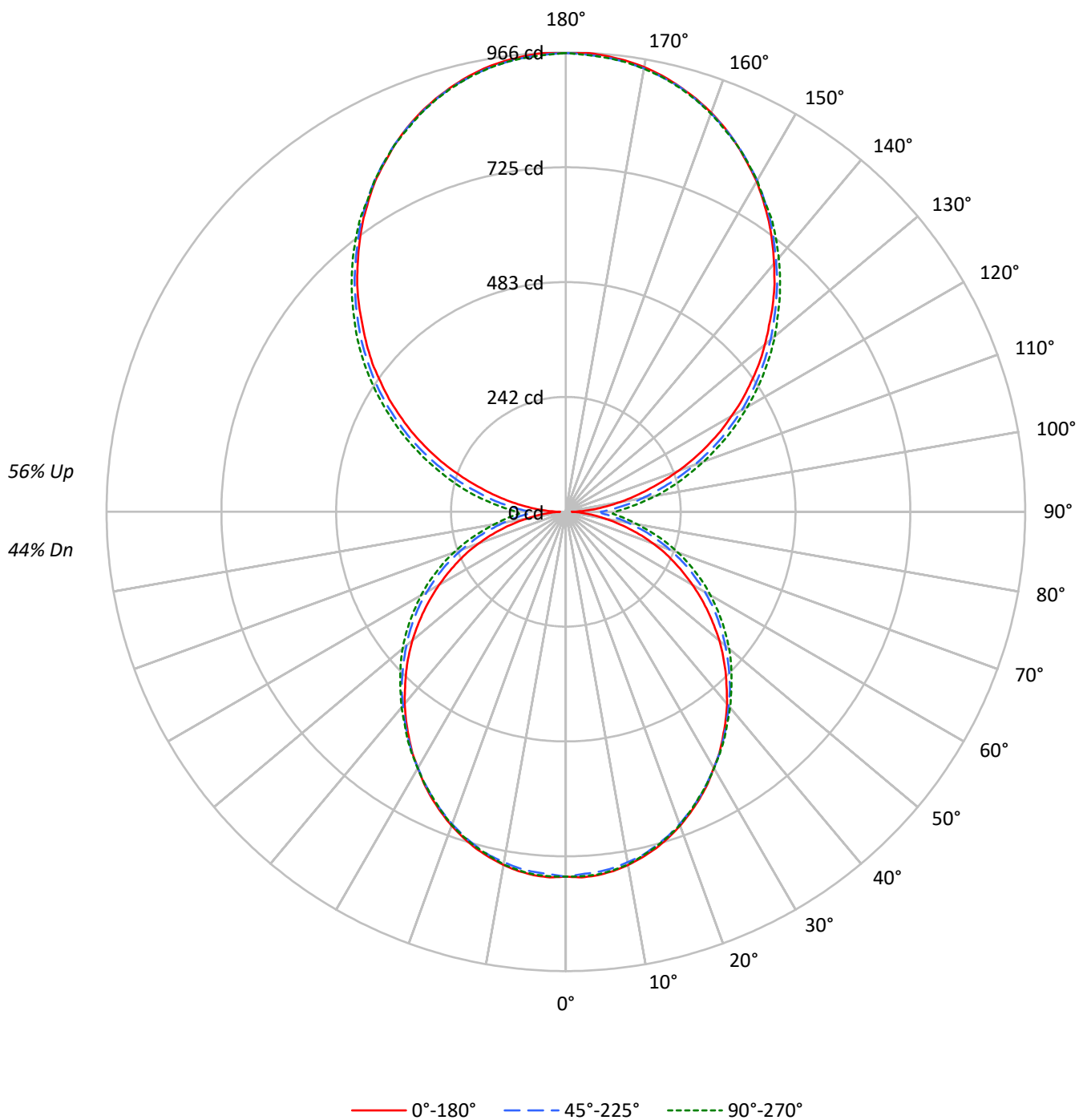
Lumens per Lamp: N/A
Luminaire Lumens: 5071.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1035518

CATALOG NUMBER: S125DIW-B610D770UB40-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1035518

CATALOG NUMBER: S125DIW-B610D770UB40-4F0-XX-W2A-D1

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
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80		65	65	65		51
1	96	91	87	83	87	84	80	77	69	67	64		56	54	53		44
2	87	79	73	68	79	73	67	63	60	56	53		49	46	43		38
3	79	69	62	56	72	64	57	52	53	48	44		43	39	36		34
4	72	61	53	47	66	56	49	44	47	41	37		38	34	31		30
5	66	54	46	40	60	50	43	37	42	36	32		34	30	27		27
6	61	49	41	35	55	45	38	32	38	32	28		31	26	23		24
7	56	44	36	30	51	40	33	28	34	28	24		28	24	20		22
8	52	40	32	27	48	37	30	25	31	25	22		25	21	18		20
9	49	36	29	24	44	34	27	22	28	23	19		23	19	16		19
10	45	33	26	21	41	31	24	20	26	21	17		22	18	15		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4196 cd/sqm

TEST NUMBER: P1035518

CATALOG NUMBER: S125DIW-B610D770UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.4
10°-20°	206.1	4.1
20°-30°	306.5	6.0
30°-40°	363.0	7.2
40°-50°	375.3	7.4
50°-60°	345.7	6.8
60°-70°	279.5	5.5
70°-80°	187.0	3.7
80°-90°	98.2	1.9
90°-100°	118.6	2.3
100°-110°	230.7	4.5
110°-120°	350.1	6.9
120°-130°	440.7	8.7
130°-140°	483.5	9.5
140°-150°	468.7	9.2
150°-160°	392.6	7.7
160°-170°	261.0	5.1
170°-180°	91.3	1.8
0°-30°	585.2	11.5
0°-40°	948.2	18.7
0°-60°	1669.2	32.9
0°-90°	2233.9	44.1
90°-120°	699.4	13.8
90°-150°	2092.3	41.3
90°-180°	2837.0	55.9
0°-180°	5071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	43	74	95	102	12
95°	59	80	113	135	141	59
105°	178	194	221	240	248	190
115°	328	336	357	370	374	325
125°	475	479	495	505	508	426
135°	616	619	625	635	636	475
145°	745	747	749	753	754	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	

TEST NUMBER: P1035518

CATALOG NUMBER: S125DIW-B610D770UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	12.8	42.9	73.7	94.8	102.3
92.5°	33.0	58.6	91.7	113.5	120.3
95°	58.6	79.6	112.7	134.6	141.3
97.5°	84.1	102.9	138.2	158.5	164.6
100°	113.4	129.2	163.0	185.5	191.6
102.5°	144.9	162.9	190.0	212.6	219.4
105°	178.0	193.7	220.8	240.3	247.9
107.5°	214.0	228.2	253.9	271.1	275.6
110°	251.6	264.3	287.7	304.1	308.7

TEST NUMBER: P1035518

CATALOG NUMBER: S125DIW-B610D770UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.6	298.8	322.1	336.4	340.2
115°	328.1	336.4	357.4	370.2	374.0
117.5°	366.4	370.9	391.2	404.7	407.0
120°	402.5	408.4	426.5	439.3	440.8
122.5°	440.7	442.2	461.0	472.2	474.6
125°	475.2	479.0	494.8	505.3	508.3
127.5°	512.8	514.3	527.8	538.4	541.4
130°	546.6	549.6	561.6	571.4	573.6
132.5°	579.6	586.3	593.1	602.9	603.7
135°	615.6	619.4	625.4	635.2	636.0
137.5°	649.4	653.2	657.7	667.5	666.7
140°	681.0	684.7	687.7	697.5	696.7
142.5°	713.3	715.5	718.5	726.0	725.3
145°	744.8	747.0	749.3	753.1	753.8
147.5°	773.3	775.5	777.0	780.8	776.3
150°	802.6	801.8	804.8	804.8	804.1
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)