

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: P1034607

Luminaire Tested: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034607
REPORT IS A COMBINATION OF REPORTS P1003993 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

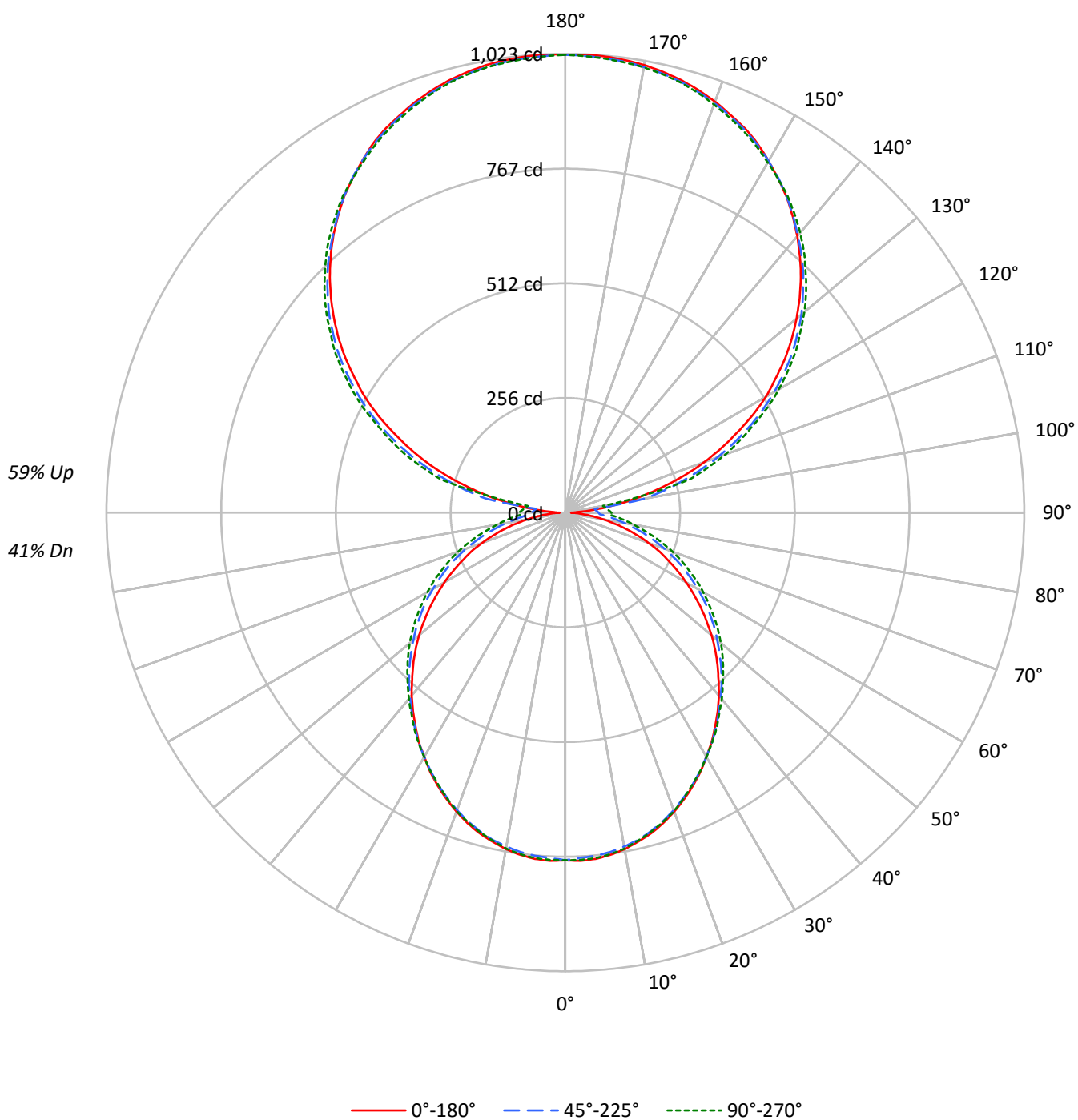
Lumens per Lamp: N/A
Luminaire Lumens: 5539.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1034607

CATALOG NUMBER: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1034607

CATALOG NUMBER: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48			41
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39			33
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	36	34	32			27
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27			23
4	72	61	53	47	65	56	49	43	46	41	36	37	33	30	28	25	23			19
5	66	54	46	40	60	49	42	37	41	35	31	33	29	26	25	22	20			17
6	60	48	40	34	55	44	37	32	37	31	27	30	25	22	23	20	18			15
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16			13
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	19	16	14			12
9	48	36	28	23	44	33	26	22	28	22	19	22	18	16	18	15	13			10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

TEST NUMBER: P1034607

CATALOG NUMBER: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.3
10°-20°	208.2	3.8
20°-30°	309.6	5.6
30°-40°	366.7	6.6
40°-50°	379.1	6.8
50°-60°	349.2	6.3
60°-70°	282.3	5.1
70°-80°	188.9	3.4
80°-90°	99.2	1.8
90°-100°	89.7	1.6
100°-110°	271.0	4.9
110°-120°	442.1	8.0
120°-130°	548.0	9.9
130°-140°	579.6	10.5
140°-150°	539.0	9.7
150°-160°	434.9	7.9
160°-170°	281.3	5.1
170°-180°	97.0	1.8
0°-30°	591.2	10.7
0°-40°	957.8	17.3
0°-60°	1686.1	30.4
0°-90°	2256.4	40.7
90°-120°	802.8	14.5
90°-150°	2469.4	44.6
90°-180°	3283.0	59.3
0°-180°	5539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	43	74	96	103	11
95°	53	70	68	88	93	61
105°	229	245	267	283	287	243
115°	422	432	452	463	463	419
125°	597	602	617	626	628	533
135°	742	746	750	758	758	572
145°	860	861	861	865	864	538
155°	946	942	943	945	939	436
165°	998	994	995	999	993	282
175°	1021	1016	1017	1023	1016	97
180°	1021	1021	1021	1021	1021	

TEST NUMBER: P1034607

CATALOG NUMBER: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.0	43.3	74.4	95.7	103.3
92.5°	25.0	40.3	71.4	91.9	98.0
95°	53.0	70.5	67.6	88.1	93.4
97.5°	90.1	112.9	66.0	83.5	89.6
100°	134.8	153.0	180.3	83.5	85.0
102.5°	180.2	197.6	222.7	239.4	180.3
105°	229.3	244.6	267.4	282.6	287.1
107.5°	280.1	290.7	314.3	330.3	331.7
110°	329.3	338.4	361.2	373.4	379.5

TEST NUMBER: P1034607

CATALOG NUMBER: S125DIW-B610D770UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.2	385.4	406.6	417.3	421.1
115°	422.4	431.5	452.0	462.6	462.7
117.5°	470.8	474.6	496.6	505.0	508.8
120°	516.2	517.8	537.5	548.9	549.6
122.5°	555.5	560.1	577.6	588.3	588.2
125°	597.2	601.8	617.0	626.0	627.6
127.5°	636.6	639.6	651.7	661.6	660.1
130°	672.9	675.9	687.4	695.7	695.7
132.5°	708.4	713.0	718.3	729.0	728.2
135°	742.5	746.3	750.1	758.5	757.8
137.5°	774.3	778.1	779.6	788.7	788.0
140°	804.6	806.1	806.1	816.0	814.5
142.5°	832.6	832.6	834.1	840.9	839.5
145°	859.9	860.6	860.6	865.2	863.6
147.5°	883.3	883.3	884.1	886.3	882.5
150°	906.0	904.5	906.0	907.5	902.3
152.5°	928.0	924.2	925.7	927.2	921.9
155°	946.1	941.6	943.1	945.4	939.3
157.5°	960.5	958.2	958.2	960.5	954.5
160°	975.6	971.1	971.9	974.9	968.8
162.5°	987.8	983.2	984.0	988.5	981.7
165°	998.4	993.8	994.6	999.1	993.1
167.5°	1006.7	1002.1	1002.9	1008.2	1001.4
170°	1013.5	1008.2	1009.0	1015.0	1008.2
172.5°	1018.0	1012.7	1014.2	1019.5	1012.7
175°	1021.1	1016.5	1017.3	1023.3	1016.5
177.5°	1023.3	1018.8	1019.5	1024.8	1018.8
180°	1021.1	1021.1	1021.1	1021.1	1021.1

(END OF REPORT)