

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: P1035501

Luminaire Tested: S125DIW-B610D770UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035501
REPORT IS A COMBINATION OF REPORTS P1003979 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D770UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

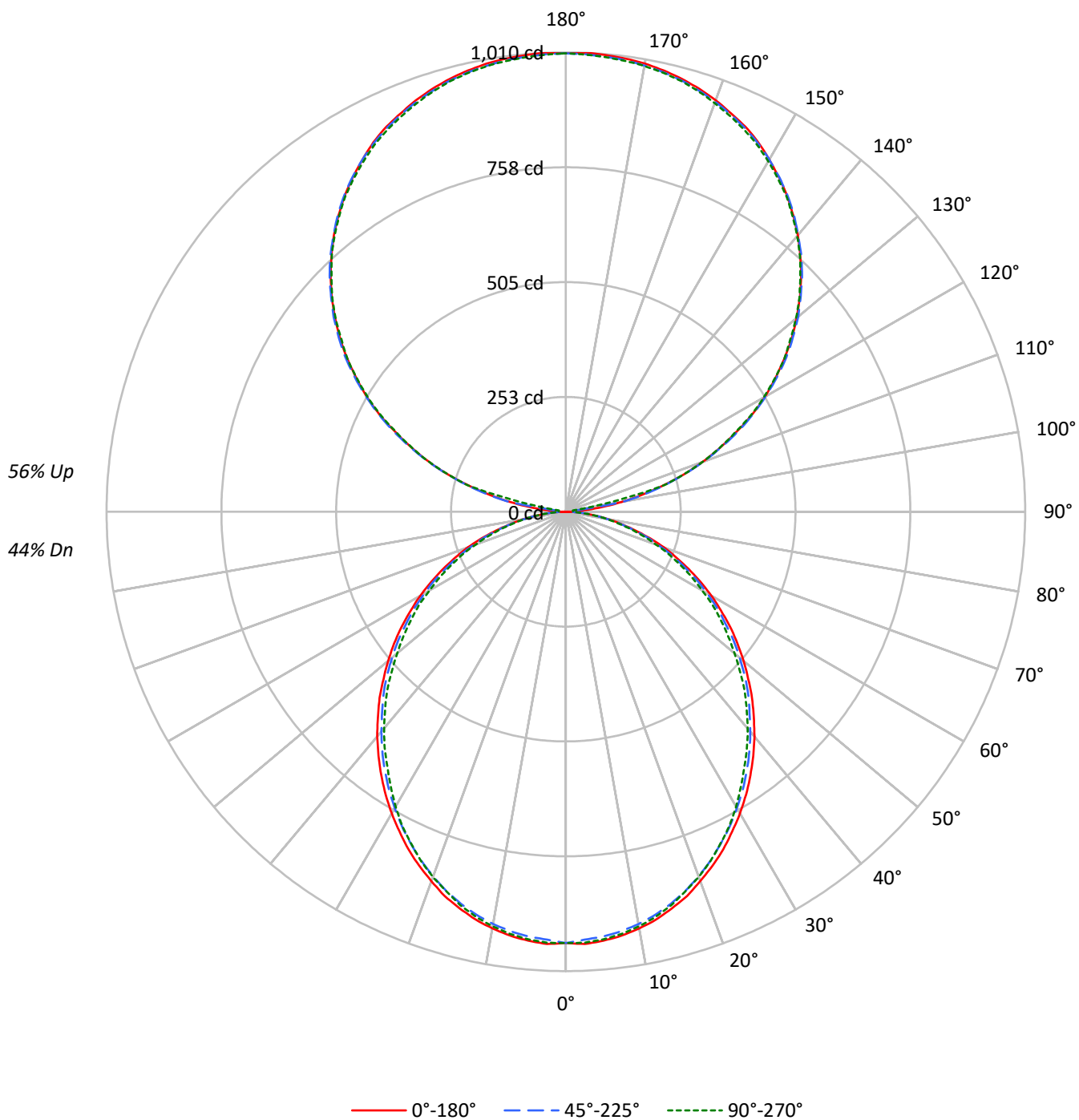
Lumens per Lamp: N/A
Luminaire Lumens: 5566.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	40	38	36
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	33	31
4	73	62	55	49	67	58	51	45	48	43	39	39	36	33	31	29	26
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	26	23	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6075	5934	5946
10°	6025	5799	5780
15°	5947	5636	5585
20°	5839	5447	5362
25°	5725	5241	5122
30°	5586	5027	4870
35°	5438	4802	4587
40°	5285	4564	4335
45°	5119	4332	4068
50°	4937	4070	3757
55°	4757	3781	3470
60°	4542	3475	3137
65°	4285	3122	2793
70°	4025	2716	2396
75°	3584	2235	1937
80°	3054	1670	1425
85°	2361	988	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.6
10°-20°	252.7	4.5
20°-30°	373.1	6.7
30°-40°	435.3	7.8
40°-50°	437.2	7.9
50°-60°	383.8	6.9
60°-70°	285.9	5.1
70°-80°	163.3	2.9
80°-90°	48.6	0.9
90°-100°	34.2	0.6
100°-110°	227.5	4.1
110°-120°	409.7	7.4
120°-130°	525.9	9.4
130°-140°	565.6	10.2
140°-150°	530.8	9.5
150°-160°	429.4	7.7
160°-170°	277.7	5.0
170°-180°	95.8	1.7
0°-30°	715.3	12.9
0°-40°	1150.7	20.7
0°-60°	1971.7	35.4
0°-90°	2469.5	44.4
90°-120°	671.4	12.1
90°-150°	2293.7	41.2
90°-180°	3097.0	55.6
0°-180°	5566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	938	944	944	90
15°	902	900	892	896	896	254
25°	819	815	806	807	805	377
35°	707	704	694	690	684	443
45°	579	576	567	558	556	446
55°	441	439	428	422	416	394
65°	298	296	288	281	278	295
75°	158	157	153	151	148	169
85°	41	42	42	41	40	45
90°	1	7	12	16	18	5
95°	43	40	12	16	16	52
105°	220	223	223	223	222	233
115°	412	416	417	414	410	409
125°	587	592	592	589	587	524
135°	732	736	735	733	729	564
145°	848	850	850	850	846	530
155°	934	930	931	933	927	430
165°	986	981	982	986	980	278
175°	1008	1004	1004	1010	1004	96
180°	1008	1008	1008	1008	1008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	951.2	949.0	941.5	949.0	948.2
5°	946.7	945.2	937.7	944.5	943.7
7.5°	940.0	938.5	930.2	937.0	936.2
10°	930.2	928.7	920.5	926.5	925.7
12.5°	918.2	915.2	907.7	912.2	912.2
15°	902.5	900.2	892.0	895.7	895.7
17.5°	886.0	882.2	874.0	878.5	874.7
20°	864.2	862.7	853.0	858.2	854.5
22.5°	842.5	839.5	830.4	833.4	831.2
25°	819.2	815.4	805.7	807.2	804.9
27.5°	792.2	789.9	780.2	780.9	778.7
30°	765.9	763.7	752.4	750.9	748.7
32.5°	737.4	733.7	723.9	720.9	716.4
35°	707.4	704.4	693.9	690.2	684.2
37.5°	676.7	672.9	663.2	657.9	654.2
40°	645.2	641.4	630.9	624.1	621.9
42.5°	611.4	608.4	597.9	591.9	588.1
45°	579.1	576.1	567.1	558.1	555.9
47.5°	543.9	544.6	533.4	524.4	519.1
50°	510.1	507.9	498.9	489.1	483.9
52.5°	475.6	474.1	464.4	456.1	450.1
55°	441.1	438.9	428.4	421.6	416.3
57.5°	404.3	403.6	394.6	385.6	383.3
60°	369.8	366.8	358.6	351.1	345.8
62.5°	333.8	331.6	324.8	316.6	312.8
65°	297.8	296.3	288.1	281.3	278.3
67.5°	262.6	259.6	253.6	247.6	246.1
70°	229.6	225.8	219.1	214.6	211.6
72.5°	193.5	191.3	187.5	182.3	179.3
75°	158.3	156.8	153.0	150.8	147.8
77.5°	125.3	124.5	122.3	120.8	118.5
80°	94.5	94.5	93.0	92.3	90.8
82.5°	67.5	66.0	66.0	64.5	64.5
85°	41.3	42.0	42.0	41.3	39.8
87.5°	20.3	20.3	19.5	19.5	18.0
90°	0.7	6.7	12.0	15.7	17.9
92.5°	14.2	7.5	12.0	15.7	16.4
95°	42.6	40.4	12.0	15.7	15.7
97.5°	80.0	84.4	13.5	14.9	15.7
100°	124.8	127.0	130.0	18.7	15.7
102.5°	170.4	173.4	174.9	176.4	113.6
105°	219.7	222.7	222.7	222.7	221.9
107.5°	270.5	270.5	272.0	272.7	269.8
110°	319.8	319.8	321.3	319.1	319.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	366.2	368.4	369.1	366.2	364.7
115°	412.5	416.2	417.0	414.0	409.5
117.5°	461.1	461.1	464.0	459.6	458.1
120°	505.9	505.1	507.4	505.9	502.2
122.5°	545.5	549.2	550.0	548.5	544.0
125°	586.6	591.8	591.8	588.8	586.6
127.5°	626.2	629.9	629.2	627.7	621.7
130°	662.1	665.8	666.6	664.3	660.6
132.5°	697.9	702.4	700.2	700.2	696.4
135°	731.6	736.0	734.6	733.1	728.6
137.5°	762.9	767.4	765.9	765.9	762.2
140°	793.6	795.1	794.3	795.8	791.3
142.5°	821.2	822.0	823.5	823.5	819.0
145°	848.1	849.6	849.6	850.4	845.9
147.5°	872.0	872.0	872.8	873.5	868.3
150°	894.5	893.0	894.5	896.0	890.0
152.5°	916.1	912.4	913.9	915.4	910.2
155°	934.1	929.6	931.1	933.3	927.3
157.5°	948.3	946.0	946.0	948.3	942.3
160°	963.2	958.7	959.5	962.5	956.5
162.5°	975.2	970.7	971.4	975.9	969.2
165°	985.6	981.1	981.9	986.4	980.4
167.5°	993.8	989.4	990.1	995.3	988.6
170°	1000.6	995.3	996.1	1002.1	995.3
172.5°	1005.1	999.8	1001.3	1006.6	999.8
175°	1008.0	1003.6	1004.3	1010.3	1003.6
177.5°	1010.3	1005.8	1006.6	1011.8	1005.8
180°	1008.0	1008.0	1008.0	1008.0	1008.0

(END OF REPORT)