

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: P1034611

Luminaire Tested: S125DIW-B610D770UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034611
REPORT IS A COMBINATION OF REPORTS P1003999 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-F_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

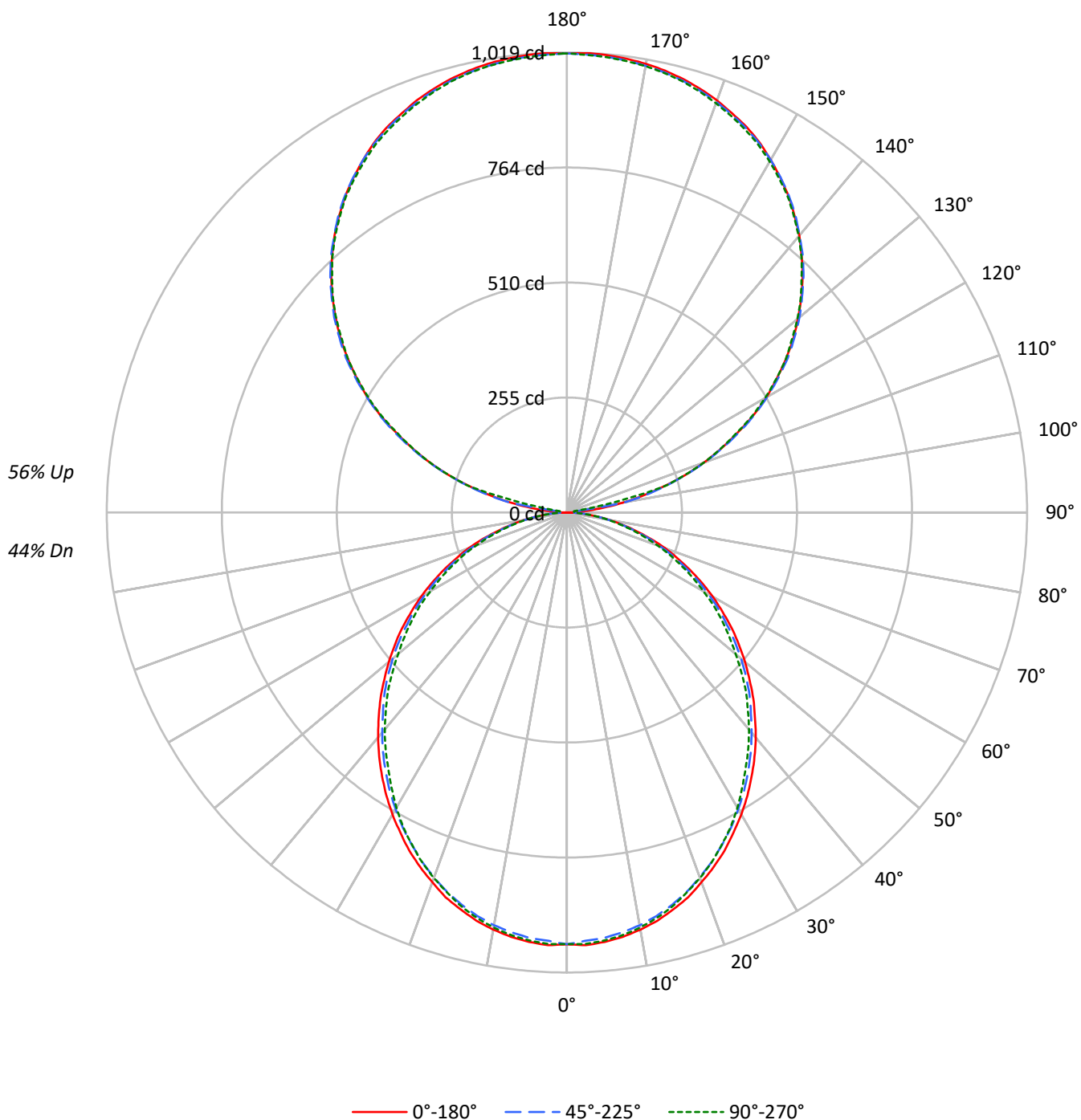
Lumens per Lamp: N/A
Luminaire Lumens: 5614.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.6
10°-20°	254.9	4.5
20°-30°	376.3	6.7
30°-40°	439.0	7.8
40°-50°	440.9	7.9
50°-60°	387.1	6.9
60°-70°	288.3	5.1
70°-80°	164.6	2.9
80°-90°	49.1	0.9
90°-100°	34.5	0.6
100°-110°	229.5	4.1
110°-120°	413.3	7.4
120°-130°	530.4	9.4
130°-140°	570.5	10.2
140°-150°	535.5	9.5
150°-160°	433.1	7.7
160°-170°	280.1	5.0
170°-180°	96.6	1.7
0°-30°	721.4	12.9
0°-40°	1160.5	20.7
0°-60°	1988.5	35.4
0°-90°	2490.5	44.4
90°-120°	677.3	12.1
90°-150°	2313.7	41.2
90°-180°	3124.0	55.6
0°-180°	5614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	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°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
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)