

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: P1035475

Luminaire Tested: S125DIW-B610D470UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035475
REPORT IS A COMBINATION OF REPORTS P1003940 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

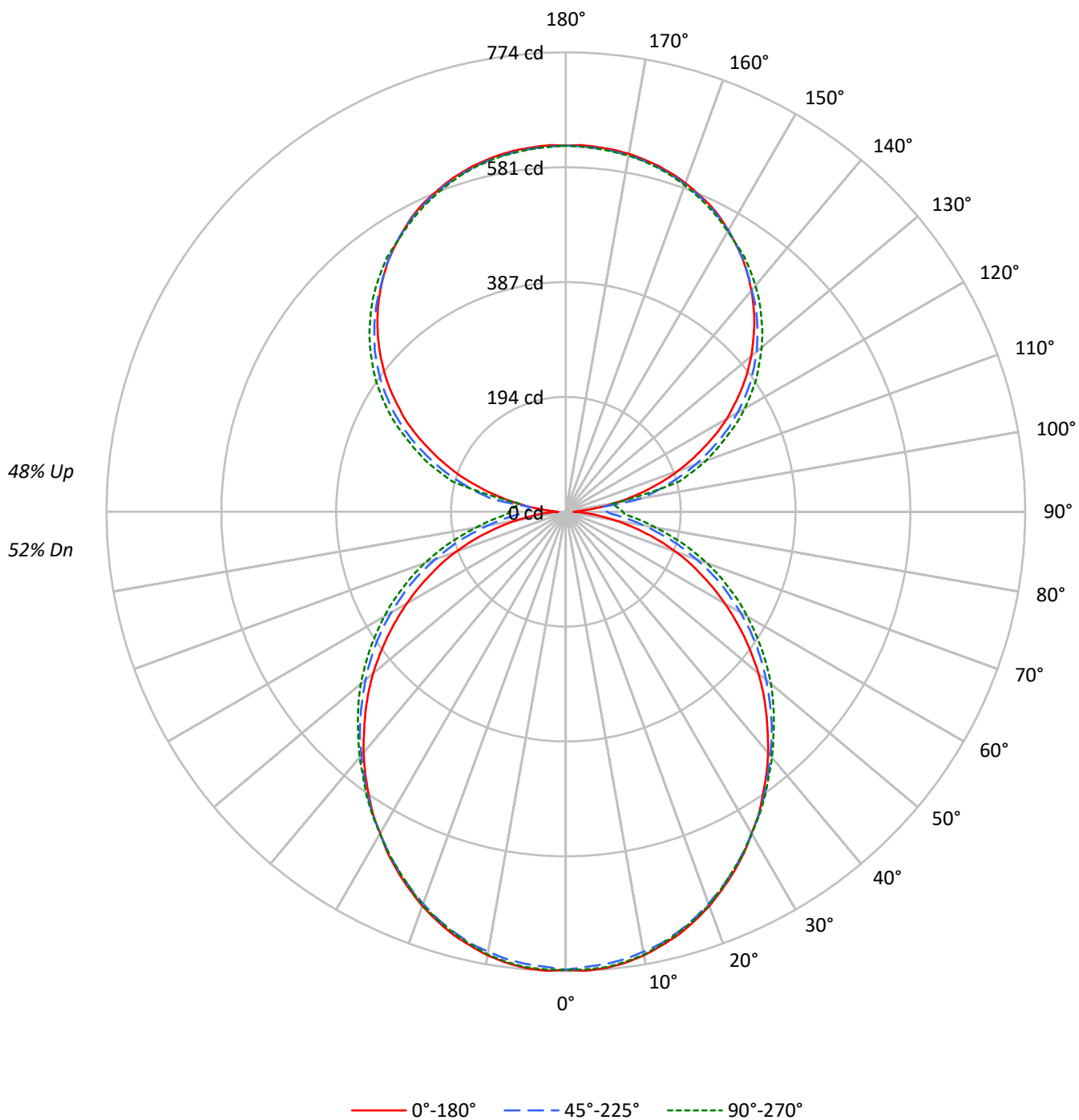
Lumens per Lamp: N/A
Luminaire Lumens: 4287.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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: P1035475

CATALOG NUMBER: S125DIW-B610D470UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1035475

CATALOG NUMBER: S125DIW-B610D470UB30-4F0-XX-W2A-D

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	93	89	85	90	86	82	79	73	70	68	61	59	58	50	49	48
2	89	81	74	69	82	75	69	64	64	59	56	53	50	47	44	42	40
3	81	71	63	57	74	66	59	53	56	51	46	47	43	40	39	36	33
4	74	62	54	48	68	58	51	45	49	44	39	42	37	34	34	31	29
5	67	55	47	41	62	52	44	39	44	38	34	37	33	29	31	27	25
6	62	50	41	35	57	46	39	33	40	34	29	34	29	26	28	24	22
7	57	45	37	31	53	42	34	29	36	30	26	31	26	23	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17
9	50	37	29	24	46	35	28	23	30	24	20	26	21	18	22	18	15
10	46	34	27	22	43	32	25	21	28	22	18	24	19	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

TEST NUMBER: P1035475

CATALOG NUMBER: S125DIW-B610D470UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.7
10°-20°	207.3	4.8
20°-30°	308.3	7.2
30°-40°	365.1	8.5
40°-50°	377.5	8.8
50°-60°	347.7	8.1
60°-70°	281.1	6.6
70°-80°	188.1	4.4
80°-90°	98.1	2.3
90°-100°	75.7	1.8
100°-110°	179.6	4.2
110°-120°	277.8	6.5
120°-130°	337.1	7.9
130°-140°	352.9	8.2
140°-150°	326.2	7.6
150°-160°	262.8	6.1
160°-170°	170.0	4.0
170°-180°	58.6	1.4
0°-30°	588.7	13.7
0°-40°	953.8	22.2
0°-60°	1679.1	39.2
0°-90°	2246.4	52.4
90°-120°	533.0	12.4
90°-150°	1549.2	36.1
90°-180°	2041.0	47.6
0°-180°	4287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	13	40	69	89	96	10
95°	36	54	62	82	87	40
105°	141	155	178	193	198	150
115°	257	264	285	296	298	255
125°	362	364	380	390	392	323
135°	449	451	456	464	466	346
145°	520	520	520	524	524	325
155°	572	569	570	571	568	263
165°	603	600	601	604	600	170
175°	617	614	615	618	614	59
180°	617	617	617	617	617	

TEST NUMBER: P1035475

CATALOG NUMBER: S125DIW-B610D470UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	12.6	40.4	69.3	89.1	95.8
92.5°	19.3	37.1	66.3	85.3	91.1
95°	35.9	54.2	62.5	81.5	86.8
97.5°	58.0	78.9	60.4	77.2	83.0
100°	84.7	101.9	128.0	75.7	78.5
102.5°	111.9	128.0	152.4	168.4	134.6
105°	141.3	155.2	177.9	193.1	197.8
107.5°	171.7	182.2	205.1	220.6	223.4
110°	201.0	210.1	232.2	245.2	250.9

TEST NUMBER: P1035475

CATALOG NUMBER: S125DIW-B610D470UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.4	237.6	258.4	270.3	274.7
115°	256.9	264.5	284.7	296.5	298.3
117.5°	286.0	289.8	310.5	320.6	324.9
120°	313.4	315.3	334.0	345.9	348.2
122.5°	336.8	339.9	357.0	368.2	370.0
125°	362.0	364.5	379.6	389.9	392.3
127.5°	385.5	387.0	399.5	409.9	410.8
130°	407.5	409.0	420.0	429.3	430.8
132.5°	428.6	431.4	437.6	448.2	448.9
135°	449.2	451.3	455.7	464.5	465.6
137.5°	468.4	470.5	472.6	481.7	482.4
140°	486.5	487.4	487.6	496.9	497.2
142.5°	503.4	503.1	504.0	510.8	511.0
145°	519.9	520.0	520.0	524.2	524.5
147.5°	533.7	533.7	534.2	536.1	534.4
150°	547.4	546.5	547.4	548.3	545.5
152.5°	560.7	558.4	559.3	560.2	557.0
155°	571.7	568.9	569.8	571.2	567.5
157.5°	580.3	579.0	579.0	580.3	576.7
160°	589.5	586.7	587.2	589.0	585.4
162.5°	596.8	594.1	594.5	597.3	593.2
165°	603.2	600.5	600.9	603.7	600.0
167.5°	608.2	605.5	606.0	609.2	605.0
170°	612.4	609.2	609.6	613.3	609.2
172.5°	615.1	611.9	612.8	616.0	611.9
175°	616.9	614.2	614.6	618.3	614.2
177.5°	618.3	615.6	616.0	619.2	615.6
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)