

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: P1028127

Luminaire Tested: S125DIP-B610D610UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028127
REPORT IS A COMBINATION OF REPORTS P1002336 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

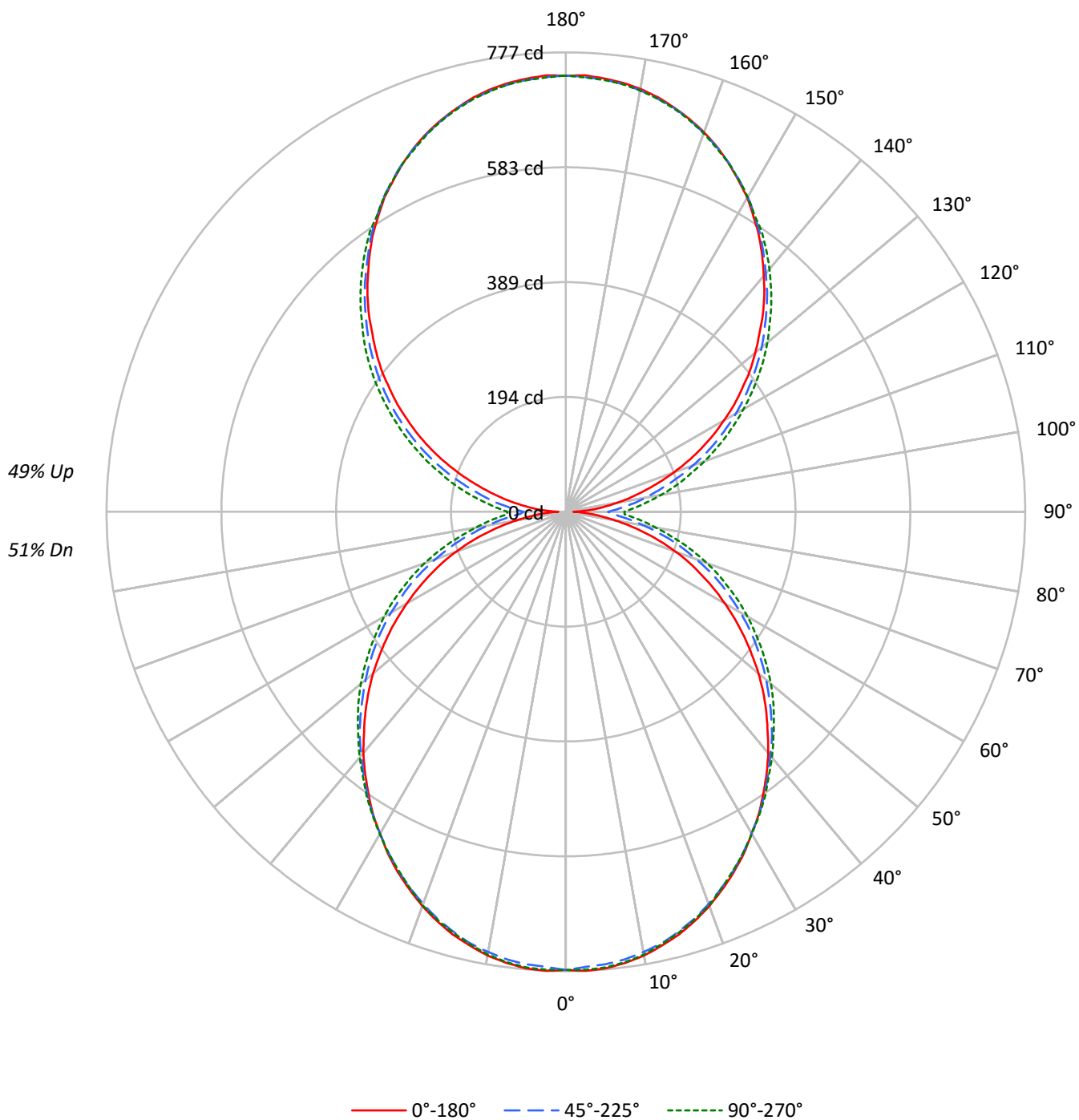
Lumens per Lamp: N/A
Luminaire Lumens: 4461.1 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	93	88	85	89	85	82	79	72	70	67	60	58	56	49	48	46
2	88	80	74	68	81	74	69	64	63	59	55	52	49	47	43	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	35	32
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	53	41	34	29	36	30	26	30	25	22	25	21	19
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	42	32	25	20	27	22	18	23	19	16	19	16	14

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.6
10°-20°	208.2	4.7
20°-30°	309.6	6.9
30°-40°	366.7	8.2
40°-50°	379.1	8.5
50°-60°	349.2	7.8
60°-70°	282.3	6.3
70°-80°	188.9	4.2
80°-90°	98.8	2.2
90°-100°	104.1	2.3
100°-110°	186.3	4.2
110°-120°	274.3	6.1
120°-130°	340.7	7.6
130°-140°	371.3	8.3
140°-150°	358.7	8.0
150°-160°	300.2	6.7
160°-170°	199.5	4.5
170°-180°	69.8	1.6
0°-30°	591.2	13.3
0°-40°	957.8	21.5
0°-60°	1686.1	37.8
0°-90°	2256.1	50.6
90°-120°	564.7	12.7
90°-150°	1635.4	36.7
90°-180°	2205.0	49.4
0°-180°	4461.1	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	42	72	92	99	11
95°	47	68	100	120	127	47
105°	138	153	179	198	205	147
115°	252	260	280	294	298	249
125°	364	367	383	394	397	326
135°	471	474	480	490	491	363
145°	570	571	573	577	578	356
155°	651	651	652	654	651	300
165°	708	707	707	710	706	200
175°	736	734	734	737	733	70
180°	738	738	738	738	738	

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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°	12.8	41.7	71.5	91.9	98.9
92.5°	27.8	52.8	84.6	105.3	111.7
95°	47.2	68.1	99.7	120.4	126.9
97.5°	66.5	85.4	118.4	137.9	143.7
100°	88.8	104.7	136.4	157.6	163.2
102.5°	112.7	129.9	156.4	177.3	183.6
105°	137.7	152.8	179.0	197.7	204.7
107.5°	165.1	178.6	203.6	220.5	225.0
110°	193.6	205.6	228.6	244.8	249.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.5	231.5	254.3	268.6	272.7
115°	252.0	259.6	280.5	293.6	297.6
117.5°	281.1	285.5	305.6	319.1	322.1
120°	308.6	313.8	331.9	344.8	347.0
122.5°	337.7	339.1	357.5	369.1	371.9
125°	364.1	366.8	382.6	393.6	396.8
127.5°	392.7	393.6	407.1	417.9	421.4
130°	418.5	420.6	432.4	442.5	445.1
132.5°	443.5	448.7	455.7	465.9	467.1
135°	471.1	473.8	479.7	489.6	491.1
137.5°	496.9	499.7	503.8	513.5	513.7
140°	520.9	523.8	526.2	535.8	535.9
142.5°	545.6	547.1	549.4	556.8	557.0
145°	569.7	571.2	572.9	576.7	578.0
147.5°	591.3	593.0	594.2	597.4	594.3
150°	613.7	613.1	615.4	615.4	615.1
152.5°	632.1	633.2	633.8	635.5	633.2
155°	651.0	651.0	651.6	653.9	651.0
157.5°	668.2	667.1	667.7	670.0	665.9
160°	683.2	681.4	682.0	684.3	681.4
162.5°	696.4	695.2	695.2	698.1	694.6
165°	707.8	706.7	707.3	709.6	706.1
167.5°	718.2	715.9	715.9	719.3	715.9
170°	726.2	723.9	723.9	727.4	723.3
172.5°	732.0	729.7	729.7	733.1	729.7
175°	736.0	733.7	733.7	737.1	733.1
177.5°	738.8	736.5	736.0	739.4	735.4
180°	737.7	737.7	737.7	737.7	737.7

(END OF REPORT)