

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: P1028136

Luminaire Tested: S125DIP-B610D610UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028136
REPORT IS A COMBINATION OF REPORTS P1002345 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

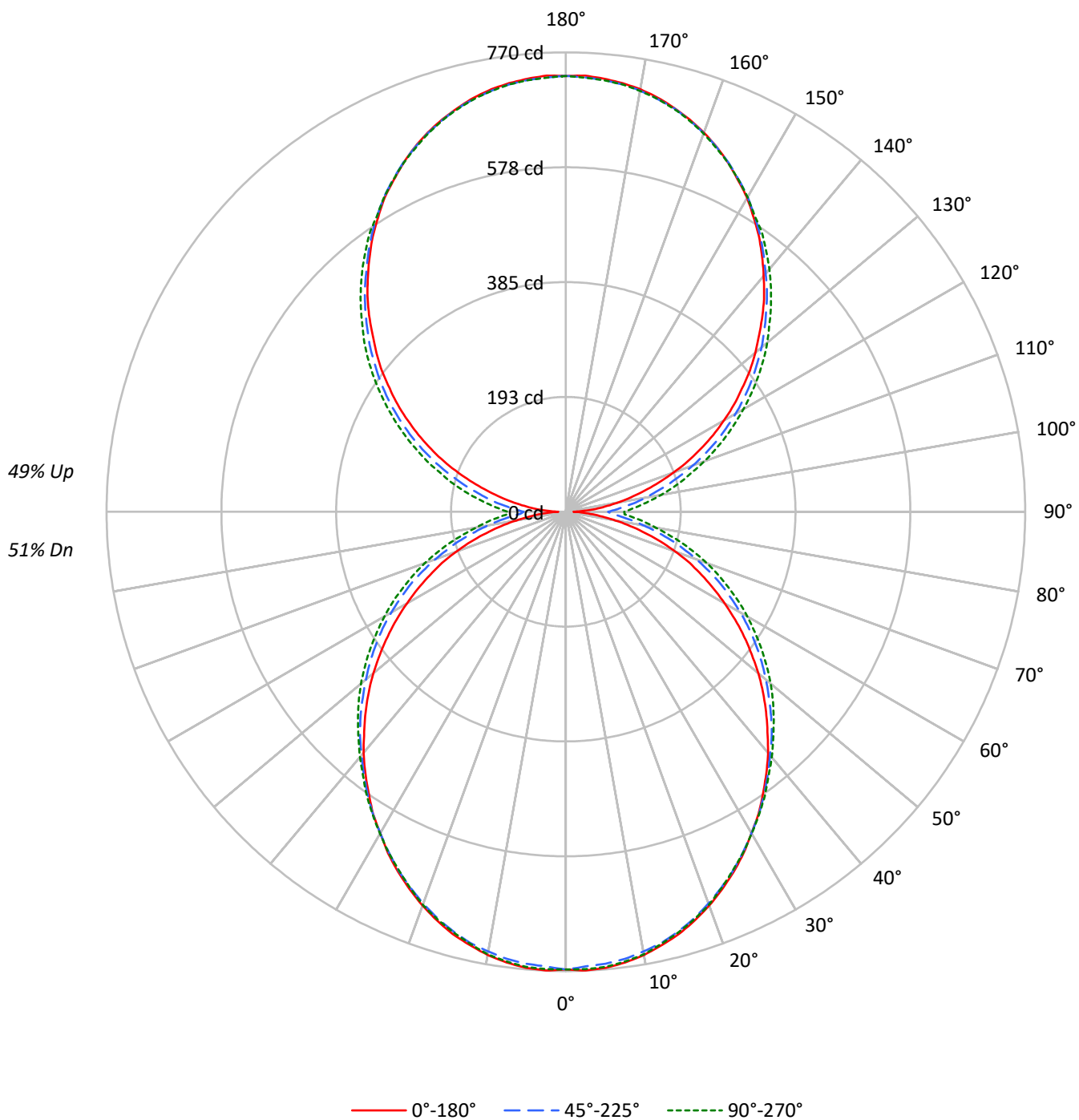
Lumens per Lamp: N/A
Luminaire Lumens: 4417.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V):
Input Current (A_{in}): 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°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4196 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.6
10°-20°	206.1	4.7
20°-30°	306.5	6.9
30°-40°	363.0	8.2
40°-50°	375.3	8.5
50°-60°	345.7	7.8
60°-70°	279.5	6.3
70°-80°	187.0	4.2
80°-90°	97.8	2.2
90°-100°	103.0	2.3
100°-110°	184.5	4.2
110°-120°	271.6	6.1
120°-130°	337.4	7.6
130°-140°	367.7	8.3
140°-150°	355.2	8.0
150°-160°	297.3	6.7
160°-170°	197.6	4.5
170°-180°	69.2	1.6
0°-30°	585.2	13.2
0°-40°	948.2	21.5
0°-60°	1669.2	37.8
0°-90°	2233.5	50.6
90°-120°	559.1	12.7
90°-150°	1619.5	36.7
90°-180°	2184.0	49.4
0°-180°	4417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	41	71	91	98	11
95°	47	67	99	119	126	46
105°	136	151	177	196	203	145
115°	250	257	278	291	295	247
125°	361	363	379	390	393	323
135°	466	469	475	485	486	360
145°	564	566	567	571	572	353
155°	645	645	645	648	645	297
165°	701	700	700	703	699	198
175°	729	727	727	730	726	69
180°	730	730	730	730	730	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	12.6	41.2	70.8	90.9	97.9
92.5°	27.6	52.2	83.7	104.2	110.6
95°	46.8	67.4	98.7	119.3	125.6
97.5°	65.9	84.5	117.3	136.5	142.4
100°	87.9	103.7	135.1	156.0	161.7
102.5°	111.5	128.7	154.8	175.6	181.8
105°	136.4	151.3	177.3	195.7	202.7
107.5°	163.5	176.8	201.6	218.3	222.8
110°	191.8	203.6	226.4	242.3	247.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.3	229.2	251.7	265.9	270.1
115°	249.5	257.1	277.7	290.8	294.7
117.5°	278.4	282.7	302.6	316.0	319.0
120°	305.7	310.7	328.6	341.4	343.6
122.5°	334.4	335.8	354.0	365.4	368.3
125°	360.6	363.3	378.9	389.7	393.0
127.5°	388.9	389.8	403.2	413.9	417.3
130°	414.5	416.5	428.1	438.2	440.7
132.5°	439.3	444.4	451.3	461.3	462.6
135°	466.5	469.3	475.0	484.8	486.3
137.5°	492.1	494.8	499.0	508.5	508.7
140°	515.9	518.7	521.1	530.6	530.7
142.5°	540.3	541.8	544.1	551.4	551.6
145°	564.2	565.7	567.4	571.2	572.5
147.5°	585.6	587.3	588.4	591.6	588.6
150°	607.7	607.2	609.4	609.4	609.1
152.5°	625.9	627.1	627.6	629.3	627.1
155°	644.7	644.7	645.3	647.5	644.7
157.5°	661.7	660.6	661.2	663.5	659.5
160°	676.5	674.8	675.4	677.7	674.8
162.5°	689.6	688.5	688.5	691.3	687.9
165°	701.0	699.8	700.4	702.7	699.3
167.5°	711.2	708.9	708.9	712.3	708.9
170°	719.2	716.9	716.9	720.3	716.3
172.5°	724.8	722.6	722.6	726.0	722.6
175°	728.8	726.6	726.6	730.0	726.0
177.5°	731.7	729.4	728.8	732.2	728.3
180°	730.5	730.5	730.5	730.5	730.5

(END OF REPORT)