

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: P1028135

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028135
REPORT IS A COMBINATION OF REPORTS P1002344 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-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

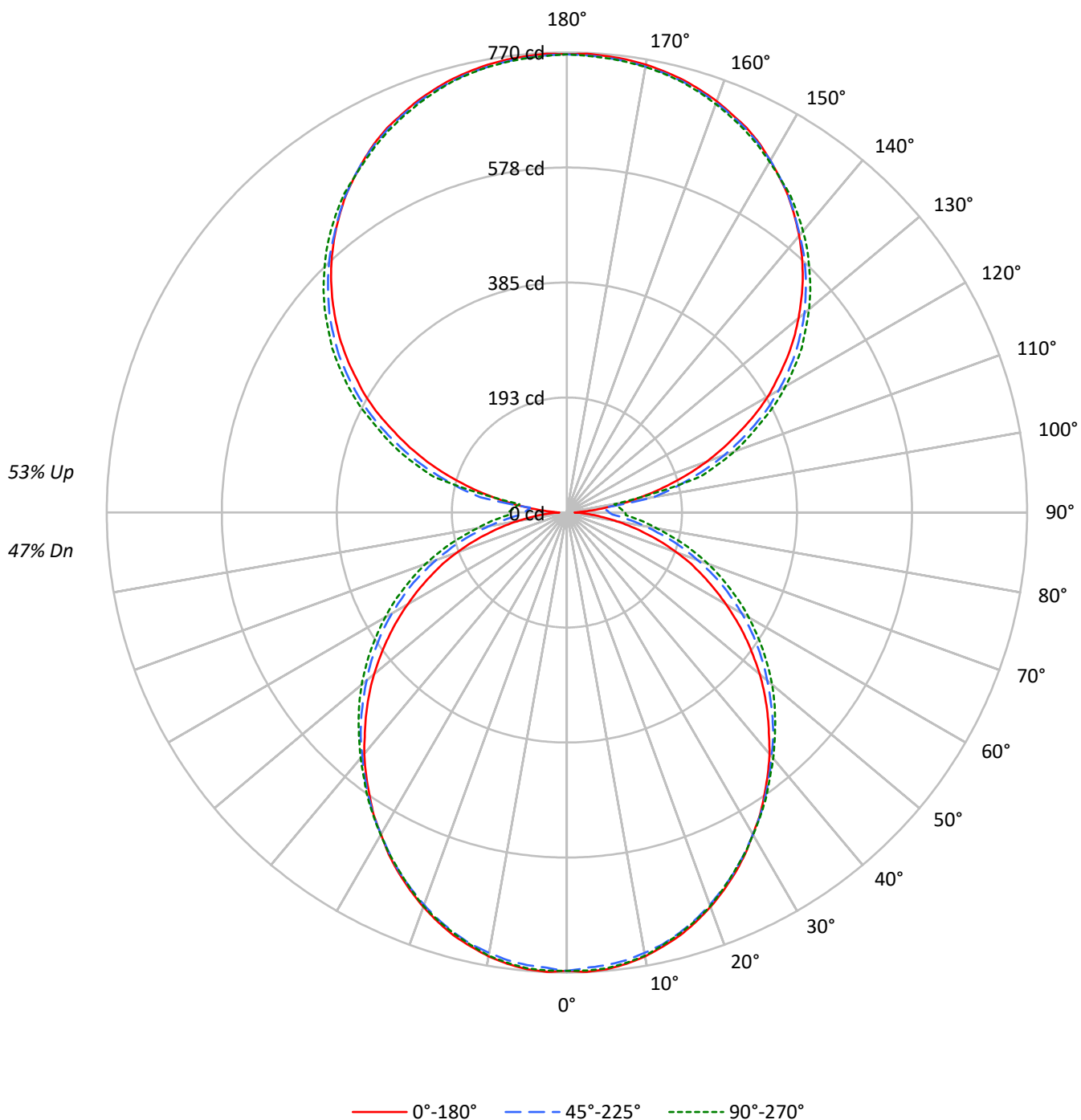
Lumens per Lamp: N/A
Luminaire Lumens: 4734.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	98	98	98	98	82	82	82		67	67	67		54
1	96	92	88	84	88	84	81	78	71	68	66		58	56	54		46
2	88	80	73	68	80	73	68	63	61	57	54		50	47	45		40
3	80	70	62	56	73	64	58	52	54	49	45		44	41	38		35
4	73	62	54	47	66	57	50	44	48	42	38		39	35	32		32
5	67	55	47	40	61	51	43	38	43	37	33		35	31	28		28
6	61	49	41	35	56	45	38	33	38	33	28		32	27	24		26
7	57	44	36	31	52	41	34	29	35	29	25		29	25	21		23
8	53	40	32	27	48	37	30	25	32	26	22		26	22	19		21
9	49	37	29	24	45	34	27	22	29	24	20		24	20	17		20
10	46	34	26	21	42	31	25	20	27	21	18		22	18	15		18

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	1.5
10°-20°	206.1	4.4
20°-30°	306.5	6.5
30°-40°	363.0	7.7
40°-50°	375.3	7.9
50°-60°	345.7	7.3
60°-70°	279.5	5.9
70°-80°	187.0	4.0
80°-90°	97.8	2.1
90°-100°	80.4	1.7
100°-110°	213.2	4.5
110°-120°	338.6	7.2
120°-130°	415.3	8.8
130°-140°	437.0	9.2
140°-150°	405.2	8.6
150°-160°	326.7	6.9
160°-170°	211.3	4.5
170°-180°	72.9	1.5
0°-30°	585.2	12.4
0°-40°	948.2	20.0
0°-60°	1669.2	35.3
0°-90°	2233.5	47.2
90°-120°	632.2	13.4
90°-150°	1889.7	39.9
90°-180°	2500.0	52.8
0°-180°	4734.0	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	10
95°	42	60	64	83	89	47
105°	174	188	211	226	231	184
115°	318	326	346	358	359	316
125°	449	453	468	477	479	401
135°	558	561	565	574	574	430
145°	646	646	646	651	650	404
155°	711	707	708	710	706	327
165°	750	746	747	750	746	212
175°	767	764	764	769	764	73
180°	767	767	767	767	767	

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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°	21.3	38.0	67.8	87.1	93.0
95°	42.2	60.0	64.0	83.4	88.6
97.5°	69.8	91.3	62.1	79.1	84.9
100°	103.2	120.7	147.0	78.1	80.4
102.5°	137.1	153.7	178.1	194.4	151.1
105°	173.9	188.2	210.8	225.8	230.6
107.5°	211.8	222.3	245.3	260.9	263.1
110°	248.6	257.6	279.9	292.4	298.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.9	292.3	313.1	324.5	328.6
115°	318.3	326.5	346.5	357.9	358.9
117.5°	354.6	358.3	379.4	388.7	392.9
120°	388.7	390.3	409.3	421.0	422.6
122.5°	418.0	421.7	438.7	449.6	450.8
125°	449.3	452.6	467.6	477.3	479.4
127.5°	478.7	480.8	493.0	503.2	503.1
130°	506.0	508.1	519.1	528.0	528.9
132.5°	532.5	535.9	541.7	552.3	552.5
135°	558.1	560.8	564.9	573.5	573.9
137.5°	582.0	584.7	586.5	595.5	595.7
140°	604.6	605.7	605.8	615.3	614.9
142.5°	625.6	625.4	626.5	633.3	632.9
145°	646.1	646.4	646.4	650.8	650.4
147.5°	663.5	663.5	664.0	666.1	663.6
150°	680.5	679.4	680.5	681.7	677.9
152.5°	697.0	694.2	695.3	696.4	692.5
155°	710.7	707.2	708.4	710.1	705.5
157.5°	721.5	719.7	719.7	721.5	716.9
160°	732.8	729.4	730.0	732.3	727.7
162.5°	741.9	738.5	739.1	742.5	737.4
165°	749.9	746.5	747.0	750.4	745.9
167.5°	756.1	752.7	753.3	757.3	752.2
170°	761.2	757.3	757.8	762.4	757.3
172.5°	764.7	760.7	761.8	765.8	760.7
175°	766.9	763.5	764.1	768.6	763.5
177.5°	768.6	765.2	765.8	769.8	765.2
180°	766.9	766.9	766.9	766.9	766.9

(END OF REPORT)