

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: P1028137

Luminaire Tested: S125DIP-B610D610UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028137
REPORT IS A COMBINATION OF REPORTS P1002346 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-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

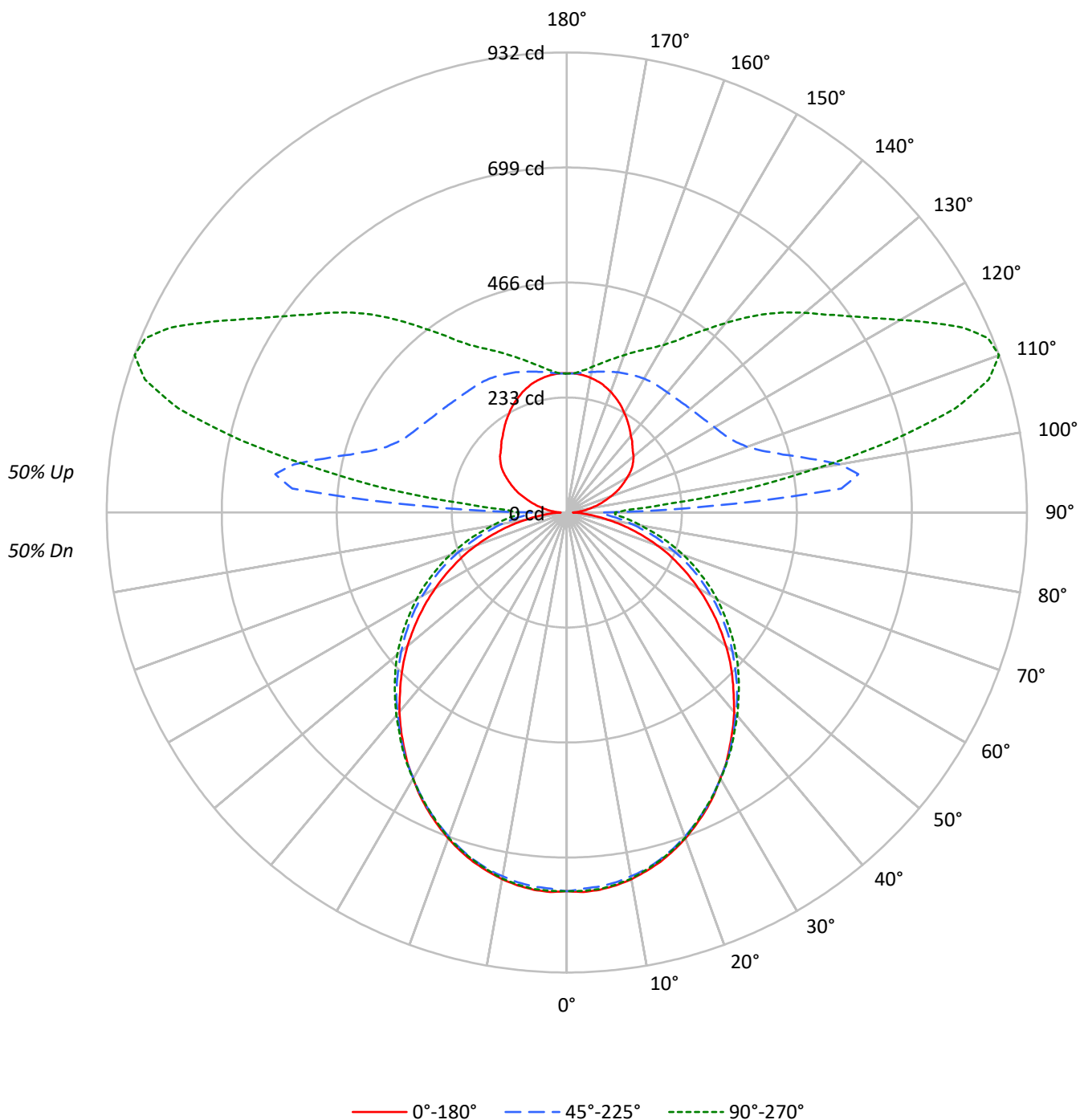
Lumens per Lamp: N/A
Luminaire Lumens: 4499.3 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	59	58	56	48	47	46
2	88	80	74	68	81	74	68	64	62	58	55	52	49	46	42	40	38
3	80	70	63	57	73	65	58	53	55	50	46	46	42	39	37	34	32
4	73	62	54	48	67	57	50	45	49	43	39	40	36	33	33	30	27
5	67	55	47	41	61	51	44	38	43	38	33	36	32	28	30	26	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	23	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	24	21	18
8	53	40	33	27	49	38	30	26	32	27	22	27	23	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	21	17	21	17	15
10	46	34	26	22	42	31	25	20	27	22	18	23	19	16	19	16	13

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	4.6
20°-30°	306.5	6.8
30°-40°	363.0	8.1
40°-50°	375.3	8.3
50°-60°	345.7	7.7
60°-70°	279.5	6.2
70°-80°	187.0	4.2
80°-90°	97.8	2.2
90°-100°	266.7	5.9
100°-110°	481.0	10.7
110°-120°	438.6	9.7
120°-130°	348.4	7.7
130°-140°	274.4	6.1
140°-150°	203.4	4.5
150°-160°	142.3	3.2
160°-170°	83.9	1.9
170°-180°	27.3	0.6
0°-30°	585.2	13.0
0°-40°	948.2	21.1
0°-60°	1669.2	37.1
0°-90°	2233.5	49.6
90°-120°	1186.3	26.4
90°-150°	2012.4	44.7
90°-180°	2266.0	50.4
0°-180°	4499.3	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	97	10
95°	29	85	558	300	210	27
105°	71	109	453	868	815	75
115°	119	148	360	756	886	118
125°	162	189	334	596	694	144
135°	188	225	321	491	568	146
145°	218	249	316	397	440	136
155°	248	266	308	348	363	114
165°	270	278	296	313	318	76
175°	281	281	284	287	286	27
180°	282	282	282	282	282	

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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	91.0	97.4
92.5°	19.0	78.9	285.4	135.7	122.5
95°	28.6	84.7	558.3	300.0	210.2
97.5°	38.0	87.1	595.7	480.2	365.6
100°	48.1	92.8	561.2	646.8	511.7
102.5°	59.2	100.5	504.2	787.5	676.1
105°	71.0	108.6	453.4	867.6	814.6
107.5°	82.1	117.9	415.1	888.1	896.0
110°	94.5	128.0	388.8	861.8	931.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.6	137.9	372.1	811.2	923.4
115°	119.3	148.2	360.0	755.7	886.1
117.5°	129.9	158.6	351.9	704.2	832.5
120°	141.3	169.4	345.5	661.1	779.9
122.5°	152.4	179.1	339.6	625.2	733.0
125°	162.1	188.7	334.4	596.3	693.9
127.5°	169.4	198.7	330.2	570.5	658.6
130°	176.7	208.9	326.8	545.1	629.2
132.5°	181.6	218.0	323.8	517.9	599.9
135°	187.9	225.0	320.8	491.1	568.5
137.5°	195.8	232.0	319.2	464.0	535.2
140°	202.0	238.0	317.4	438.8	500.9
142.5°	209.9	242.9	316.5	416.8	468.9
145°	217.9	248.6	315.9	397.3	439.8
147.5°	225.6	253.7	314.8	380.8	412.7
150°	233.0	258.2	313.1	367.6	391.7
152.5°	240.9	262.8	310.8	357.7	376.2
155°	247.7	266.5	308.0	348.0	363.1
157.5°	254.0	270.2	305.1	339.0	351.2
160°	260.2	273.0	302.3	329.8	339.2
162.5°	265.4	275.9	298.9	321.6	328.4
165°	270.5	277.9	295.5	313.4	318.2
167.5°	273.9	279.0	292.1	305.7	308.5
170°	277.3	280.5	289.2	298.3	300.0
172.5°	279.6	281.0	285.8	292.4	292.1
175°	281.3	281.3	283.5	287.0	285.8
177.5°	282.4	281.3	281.8	283.5	281.8
180°	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)