

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: P1028119

Luminaire Tested: S125DIP-B610D610UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028119
REPORT IS A COMBINATION OF REPORTS P1002328 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

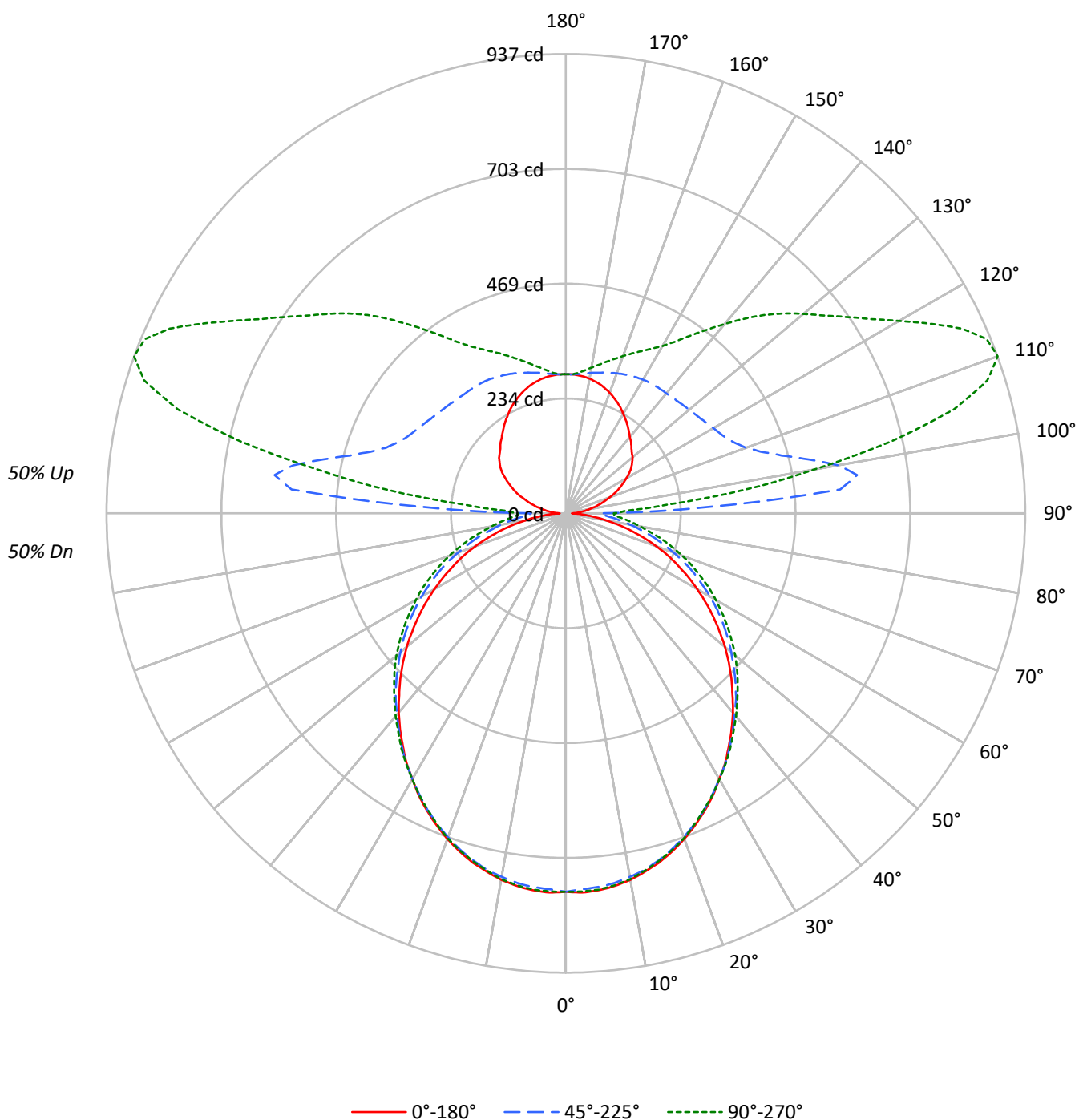
Lumens per Lamp: N/A
Luminaire Lumens: 4526.3 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.6
10°-20°	207.3	4.6
20°-30°	308.3	6.8
30°-40°	365.1	8.1
40°-50°	377.5	8.3
50°-60°	347.7	7.7
60°-70°	281.1	6.2
70°-80°	188.1	4.2
80°-90°	98.3	2.2
90°-100°	268.3	5.9
100°-110°	483.9	10.7
110°-120°	441.3	9.8
120°-130°	350.5	7.7
130°-140°	276.1	6.1
140°-150°	204.6	4.5
150°-160°	143.1	3.2
160°-170°	84.4	1.9
170°-180°	27.4	0.6
0°-30°	588.7	13.0
0°-40°	953.8	21.1
0°-60°	1679.1	37.1
0°-90°	2246.6	49.6
90°-120°	1193.5	26.4
90°-150°	2024.8	44.7
90°-180°	2280.0	50.4
0°-180°	4526.3	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	41	71	92	98	10
95°	29	85	562	302	212	27
105°	71	109	456	873	820	75
115°	120	149	362	760	892	118
125°	163	190	336	600	698	145
135°	189	226	323	494	572	147
145°	219	250	318	400	442	137
155°	249	268	310	350	365	115
165°	272	280	297	315	320	77
175°	283	283	285	289	288	27
180°	284	284	284	284	284	

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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°	12.7	41.4	71.1	91.5	97.9
92.5°	19.2	79.4	287.1	136.6	123.3
95°	28.7	85.2	561.7	301.7	211.6
97.5°	38.3	87.5	599.3	483.2	367.8
100°	48.3	93.4	564.7	650.8	514.8
102.5°	59.6	101.1	507.3	792.3	680.3
105°	71.4	109.2	456.1	873.0	819.5
107.5°	82.7	118.6	417.6	893.6	901.6
110°	95.1	128.8	391.2	867.2	937.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.2	138.8	374.4	816.3	929.1
115°	120.0	149.0	362.2	760.4	891.5
117.5°	130.7	159.6	354.1	708.4	837.6
120°	142.2	170.4	347.7	665.2	784.7
122.5°	153.4	180.2	341.7	629.0	737.4
125°	163.1	189.9	336.4	600.0	698.2
127.5°	170.4	199.9	332.3	574.0	662.6
130°	177.8	210.2	328.8	548.4	633.1
132.5°	182.7	219.4	325.8	521.1	603.6
135°	189.0	226.4	322.8	494.1	572.0
137.5°	197.0	233.5	321.1	466.8	538.4
140°	203.2	239.5	319.4	441.4	504.0
142.5°	211.2	244.4	318.4	419.3	471.7
145°	219.2	250.1	317.9	399.7	442.4
147.5°	227.0	255.3	316.7	383.1	415.2
150°	234.4	259.8	315.0	369.9	394.1
152.5°	242.4	264.4	312.7	359.9	378.5
155°	249.3	268.1	309.9	350.2	365.3
157.5°	255.6	271.8	307.0	341.0	353.3
160°	261.8	274.7	304.1	331.9	341.3
162.5°	267.0	277.6	300.7	323.6	330.4
165°	272.1	279.6	297.3	315.3	320.2
167.5°	275.6	280.8	293.9	307.5	310.4
170°	279.0	282.2	291.0	300.2	301.9
172.5°	281.3	282.7	287.6	294.2	293.9
175°	283.0	283.0	285.3	288.7	287.6
177.5°	284.1	283.0	283.6	285.3	283.6
180°	283.6	283.6	283.6	283.6	283.6

(END OF REPORT)