

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: P1028073

Luminaire Tested: S125DIP-B610D375UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028073
REPORT IS A COMBINATION OF REPORTS P1002267 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

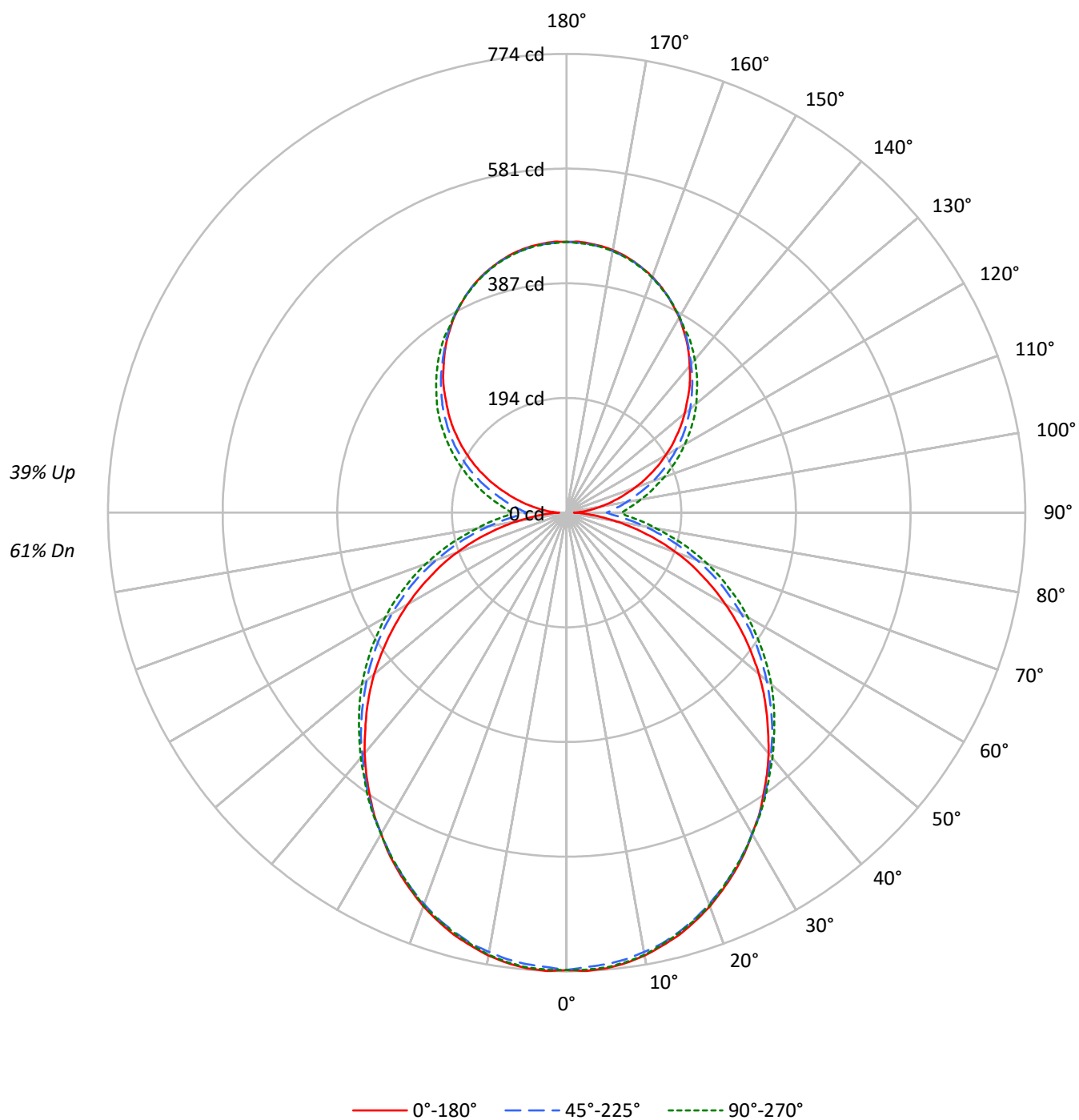
Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	66	66	66
1	99	95	90	86	93	89	85	81	77	74	72	67	65	63	57	56	54
2	90	82	75	70	84	77	71	66	67	63	59	58	55	52	50	47	45
3	82	72	64	58	76	67	60	55	59	54	49	51	47	43	44	41	38
4	75	64	55	49	70	60	52	46	52	46	42	45	41	37	39	35	32
5	69	57	48	42	64	53	45	40	47	41	36	41	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	37	32	28	32	28	25
7	59	46	37	32	55	43	36	30	38	32	27	33	28	25	29	25	22
8	54	42	34	28	51	39	32	27	35	29	24	31	26	22	27	23	20
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	25	21	18
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	16

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	2.0
10°-20°	207.3	5.7
20°-30°	308.3	8.4
30°-40°	365.1	10.0
40°-50°	377.5	10.3
50°-60°	347.7	9.5
60°-70°	281.1	7.7
70°-80°	188.1	5.1
80°-90°	97.9	2.7
90°-100°	85.1	2.3
100°-110°	130.6	3.6
110°-120°	180.1	4.9
120°-130°	216.8	5.9
130°-140°	232.5	6.3
140°-150°	222.7	6.1
150°-160°	185.9	5.1
160°-170°	123.6	3.4
170°-180°	43.3	1.2
0°-30°	588.7	16.1
0°-40°	953.8	26.0
0°-60°	1679.1	45.8
0°-90°	2246.2	61.3
90°-120°	395.9	10.8
90°-150°	1068.0	29.1
90°-180°	1421.0	38.8
0°-180°	3667.0	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°	12	40	68	87	93	10
95°	33	53	83	102	108	32
105°	88	102	127	144	150	94
115°	158	164	185	198	202	156
125°	227	228	244	255	258	203
135°	292	294	300	309	312	225
145°	353	354	355	359	361	221
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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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°	12.5	39.5	67.7	87.0	93.3
92.5°	21.3	44.9	74.6	93.8	99.8
95°	32.9	53.3	82.6	101.8	107.8
97.5°	44.7	63.1	93.1	111.1	116.8
100°	58.1	74.0	102.8	121.9	127.2
102.5°	72.7	88.8	114.0	132.7	138.4
105°	87.9	101.8	126.6	143.9	150.2
107.5°	104.6	116.9	140.7	156.8	161.4
110°	121.9	132.8	155.1	170.4	175.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.4	147.9	169.8	183.8	188.4
115°	157.8	164.5	184.9	198.1	202.4
117.5°	175.6	179.7	199.3	212.5	216.4
120°	192.6	196.7	214.5	227.3	230.4
122.5°	210.3	211.5	229.1	240.9	244.4
125°	226.7	228.1	243.6	254.9	258.4
127.5°	244.1	244.4	257.6	268.6	272.5
130°	260.1	261.1	272.4	282.6	285.7
132.5°	275.3	278.5	285.8	296.0	297.9
135°	292.4	293.8	299.5	309.3	311.6
137.5°	308.4	309.8	313.5	323.0	324.2
140°	323.0	324.7	326.5	335.5	336.8
142.5°	338.3	338.9	340.3	347.5	348.7
145°	353.2	353.8	354.9	358.7	360.6
147.5°	366.3	367.3	368.0	370.6	369.3
150°	380.1	379.8	381.2	381.2	381.3
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)