

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: P1028340

Luminaire Tested: S125DIP-B850D610UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028340
REPORT IS A COMBINATION OF REPORTS P1002627 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB30-4F0-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

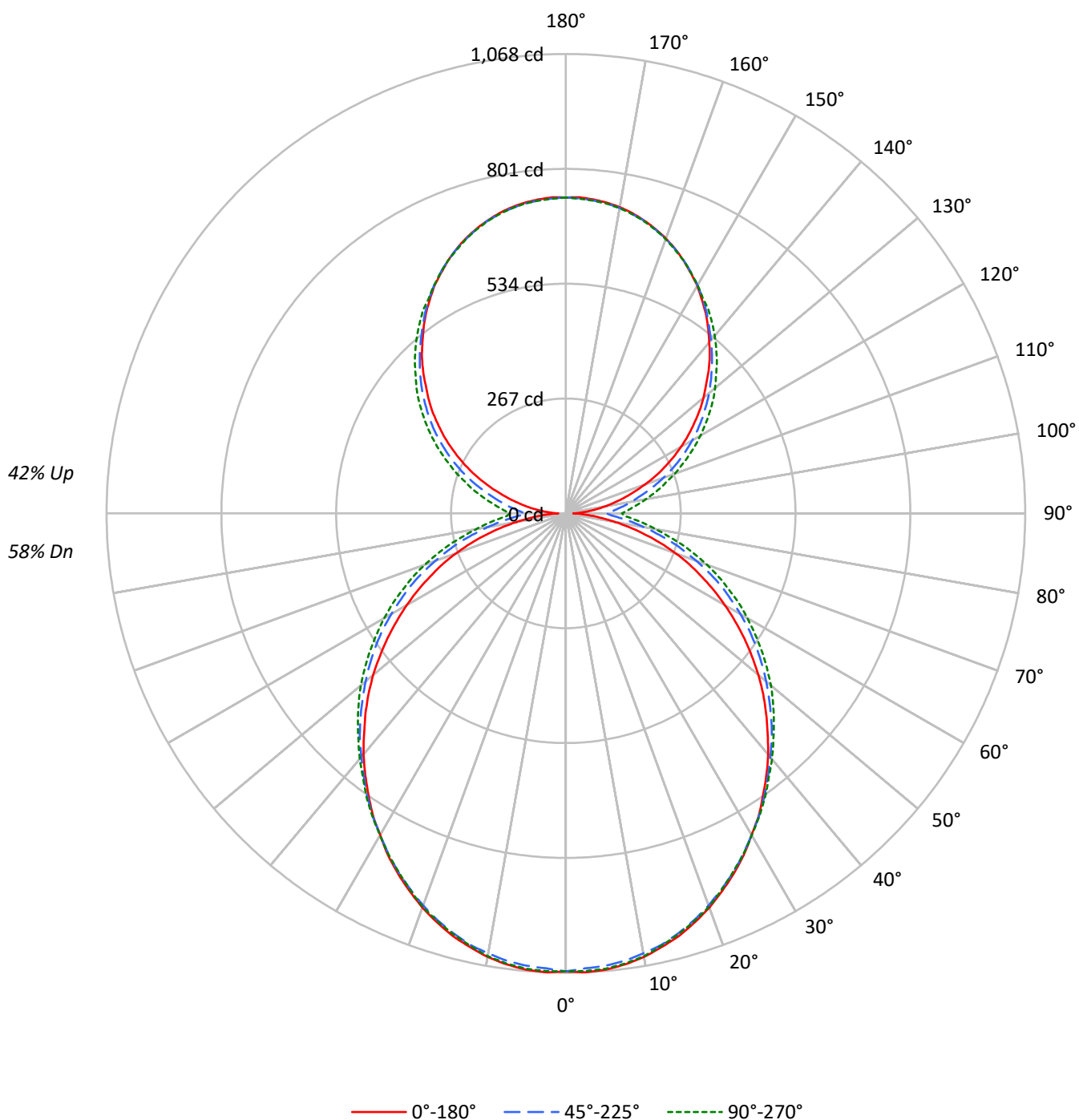
Lumens per Lamp: N/A
Luminaire Lumens: 5349.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43
3	81	71	64	57	75	67	60	54	58	52	48	50	45	42	42	39	36
4	74	63	55	48	69	59	52	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	53	45	39	46	40	35	39	35	31	34	30	27
6	63	50	42	36	58	47	40	34	41	35	30	36	31	27	30	27	24
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	25	22	19
9	50	38	30	25	47	35	28	24	31	25	21	27	22	19	23	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6823	6823	6823
5°	6834	6680	6697
10°	6783	6544	6525
15°	6700	6385	6315
20°	6589	6194	6106
25°	6457	5991	5853
30°	6297	5768	5623
35°	6147	5563	5411
40°	5996	5348	5197
45°	5824	5161	5005
50°	5659	4957	4832
55°	5462	4764	4630
60°	5245	4543	4424
65°	5017	4311	4191
70°	4759	3999	3949
75°	4350	3692	3654
80°	3813	3318	3327
85°	3282	3019	3155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.9
10°-20°	286.1	5.3
20°-30°	425.4	8.0
30°-40°	503.8	9.4
40°-50°	520.9	9.7
50°-60°	479.8	9.0
60°-70°	387.9	7.2
70°-80°	259.5	4.9
80°-90°	135.3	2.5
90°-100°	124.4	2.3
100°-110°	200.8	3.8
110°-120°	283.4	5.3
120°-130°	345.1	6.4
130°-140°	372.2	7.0
140°-150°	357.6	6.7
150°-160°	298.9	5.6
160°-170°	198.7	3.7
170°-180°	69.5	1.3
0°-30°	812.3	15.2
0°-40°	1316.1	24.6
0°-60°	2316.7	43.3
0°-90°	3099.4	57.9
90°-120°	608.5	11.4
90°-150°	1683.4	31.5
90°-180°	2251.0	42.1
0°-180°	5349.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1065	1063	1056	1064	1063	101
15°	1017	1018	1011	1017	1013	287
25°	924	927	921	925	920	425
35°	800	807	804	807	807	501
45°	659	670	676	683	684	508
55°	506	523	540	551	555	453
65°	349	373	398	413	418	346
75°	192	219	253	274	279	204
85°	57	92	128	151	160	60
90°	17	55	95	122	131	14
95°	51	79	120	147	156	50
105°	140	159	194	218	227	149
115°	253	262	290	309	314	250
125°	364	366	388	403	408	326
135°	470	472	480	493	496	362
145°	567	569	570	576	578	355
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1068.1	1066.0	1058.7	1066.0	1064.9
5°	1064.9	1062.9	1055.5	1063.9	1062.9
7.5°	1057.6	1056.6	1049.3	1056.6	1055.5
10°	1047.2	1047.2	1038.8	1046.1	1045.1
12.5°	1032.6	1033.6	1027.4	1032.6	1029.4
15°	1016.9	1018.0	1010.6	1016.9	1012.7
17.5°	997.1	999.2	991.9	997.1	993.9
20°	975.2	977.2	969.9	973.1	973.1
22.5°	950.1	954.3	945.9	950.1	947.0
25°	924.0	927.1	920.9	925.0	919.8
27.5°	895.8	900.0	892.7	895.8	893.7
30°	863.4	869.7	863.4	865.5	864.5
32.5°	834.2	839.4	835.2	837.3	836.3
35°	799.7	807.1	803.9	807.1	807.1
37.5°	766.3	772.6	771.6	775.7	774.7
40°	731.9	740.2	739.2	743.4	745.5
42.5°	694.3	705.8	708.9	714.1	714.1
45°	658.8	670.3	675.5	682.8	683.9
47.5°	622.3	632.7	641.1	651.5	653.6
50°	584.7	596.2	607.6	619.1	622.3
52.5°	545.0	559.6	574.2	586.8	588.8
55°	506.4	523.1	539.8	551.3	555.4
57.5°	466.7	486.5	505.3	517.9	521.0
60°	427.0	447.9	468.8	484.4	487.6
62.5°	388.4	409.3	432.2	450.0	454.2
65°	348.7	372.7	397.8	413.4	417.6
67.5°	312.2	335.1	360.2	379.0	384.2
70°	271.5	295.5	322.6	342.5	348.7
72.5°	231.8	256.8	287.1	309.0	313.2
75°	192.1	219.3	252.7	273.5	278.8
77.5°	153.5	184.8	216.1	239.1	243.3
80°	118.0	149.3	184.8	207.8	211.9
82.5°	85.6	119.0	155.6	177.5	185.8
85°	57.4	91.9	128.4	151.4	159.7
87.5°	36.5	70.0	105.5	129.5	136.8
90°	17.3	55.2	94.7	121.6	130.6
92.5°	31.7	64.9	106.5	133.6	142.0
95°	50.8	79.0	120.2	147.2	155.7
97.5°	69.7	95.3	137.7	163.2	171.0
100°	91.5	113.4	154.3	181.3	188.7
102.5°	115.0	137.8	172.9	199.5	207.5
105°	139.7	159.3	194.0	218.3	227.4
107.5°	166.7	184.2	217.2	239.9	246.2
110°	194.8	210.1	241.1	262.7	269.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.5	235.0	265.5	284.9	291.1
115°	252.6	262.2	290.5	308.7	314.4
117.5°	281.3	287.0	314.3	332.7	337.7
120°	308.7	314.8	339.3	357.0	361.0
122.5°	337.4	339.0	363.7	379.8	384.4
125°	363.7	366.1	387.5	403.1	407.7
127.5°	391.8	392.5	410.8	425.9	431.0
130°	417.5	419.3	435.1	449.1	453.2
132.5°	442.2	447.4	457.2	471.2	473.7
135°	469.6	472.0	479.9	493.4	496.4
137.5°	495.4	497.7	503.0	516.1	517.5
140°	518.8	521.7	524.5	537.2	538.4
142.5°	543.4	544.7	547.0	557.0	558.3
145°	567.4	568.7	570.4	575.6	578.1
147.5°	588.7	590.4	591.6	595.4	592.9
150°	611.0	610.4	612.7	612.7	612.6
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)