

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: P1028189

Luminaire Tested: S125DIP-B610D850UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028189
REPORT IS A COMBINATION OF REPORTS P1002415 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB50-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

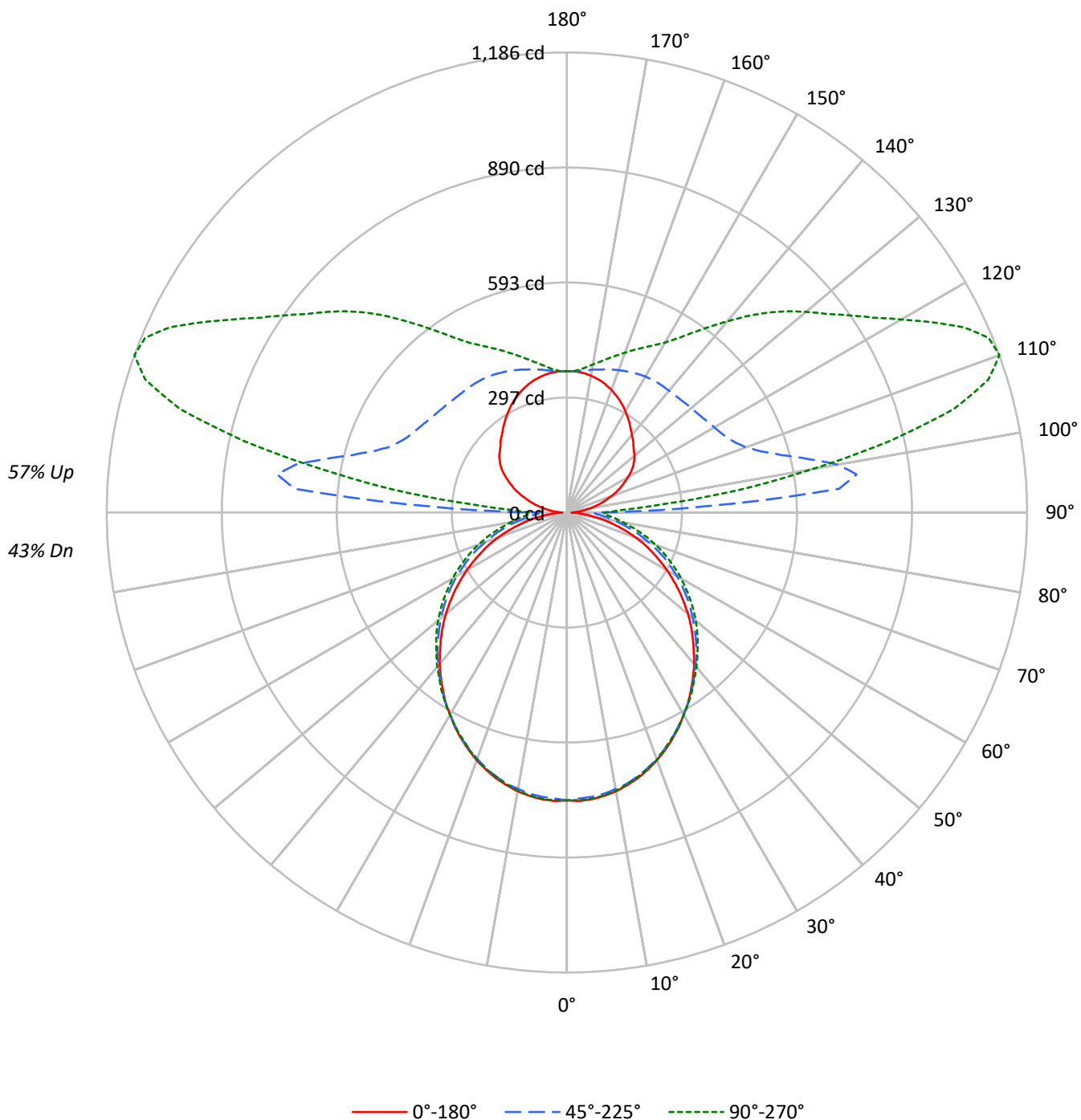
Lumens per Lamp: N/A
Luminaire Lumens: 5041.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	96	91	87	83	87	83	80	77	69	66	64	55	53	52	43	42	41
2	87	79	73	67	79	72	67	62	60	56	52	48	45	43	37	35	34
3	79	69	62	56	72	63	57	52	52	48	44	42	39	36	33	30	28
4	72	61	53	47	65	56	49	44	46	41	37	38	34	31	29	26	24
5	66	54	46	40	60	50	43	37	41	36	32	34	29	26	26	23	21
6	61	49	40	35	55	45	37	32	37	32	28	30	26	23	24	21	18
7	56	44	36	30	51	40	33	28	34	28	24	27	23	20	22	19	16
8	52	40	32	27	47	37	30	25	31	25	21	25	21	18	20	17	15
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.4
10°-20°	199.4	4.0
20°-30°	296.5	5.9
30°-40°	351.1	7.0
40°-50°	363.0	7.2
50°-60°	334.4	6.6
60°-70°	270.3	5.4
70°-80°	180.9	3.6
80°-90°	94.9	1.9
90°-100°	326.9	6.5
100°-110°	608.5	12.1
110°-120°	558.1	11.1
120°-130°	445.3	8.8
130°-140°	352.4	7.0
140°-150°	262.4	5.2
150°-160°	183.9	3.6
160°-170°	108.4	2.1
170°-180°	35.2	0.7
0°-30°	566.0	11.2
0°-40°	917.1	18.2
0°-60°	1614.5	32.0
0°-90°	2160.6	42.9
90°-120°	1493.5	29.6
90°-150°	2553.6	50.7
90°-180°	2881.0	57.1
0°-180°	5041.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	12	42	71	92	98	10
95°	34	100	704	364	247	33
105°	90	134	572	1103	1033	94
115°	153	188	456	963	1130	150
125°	208	243	426	761	886	185
135°	242	290	413	630	728	188
145°	281	321	408	512	566	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.3	41.5	71.4	91.9	98.4
92.5°	21.2	91.5	349.8	151.0	132.2
95°	33.7	100.0	703.7	364.2	246.8
97.5°	46.1	103.7	752.9	598.6	448.8
100°	59.4	112.2	709.7	815.2	638.9
102.5°	74.1	122.8	637.0	998.1	852.7
105°	89.5	134.2	572.4	1102.8	1032.6
107.5°	104.2	147.0	523.9	1130.4	1139.1
110°	120.4	160.7	490.9	1097.7	1186.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.3	174.2	470.4	1033.5	1176.6
115°	152.7	188.3	455.8	962.6	1129.6
117.5°	166.6	202.6	446.2	897.3	1061.4
120°	181.3	216.9	438.9	842.6	994.6
122.5°	196.0	230.1	432.3	797.6	935.2
125°	208.5	243.0	426.4	761.2	886.0
127.5°	218.1	256.3	422.1	728.9	841.2
130°	227.6	269.6	418.4	696.9	804.6
132.5°	234.3	281.2	415.5	662.8	767.8
135°	242.3	290.4	412.6	629.6	728.2
137.5°	252.6	299.6	411.1	595.4	686.4
140°	260.6	307.3	409.8	563.9	643.2
142.5°	270.9	313.9	409.0	536.2	602.8
145°	281.2	321.2	408.3	512.1	566.0
147.5°	291.5	327.8	406.8	491.6	532.3
150°	301.1	333.8	404.6	475.1	505.9
152.5°	311.3	339.6	401.7	462.2	486.1
155°	320.1	344.4	398.0	449.8	469.2
157.5°	328.2	349.2	394.3	438.0	453.8
160°	336.3	352.8	390.6	426.2	438.4
162.5°	342.9	356.5	386.2	415.6	424.4
165°	349.5	359.1	381.8	405.0	411.2
167.5°	353.9	360.6	377.4	395.0	398.7
170°	358.3	362.4	373.8	385.5	387.7
172.5°	361.3	363.1	369.3	377.8	377.4
175°	363.5	363.5	366.4	370.8	369.3
177.5°	364.9	363.5	364.2	366.4	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)