

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: P1028173

Luminaire Tested: S125DIP-B610D850UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028173
REPORT IS A COMBINATION OF REPORTS P1002397 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

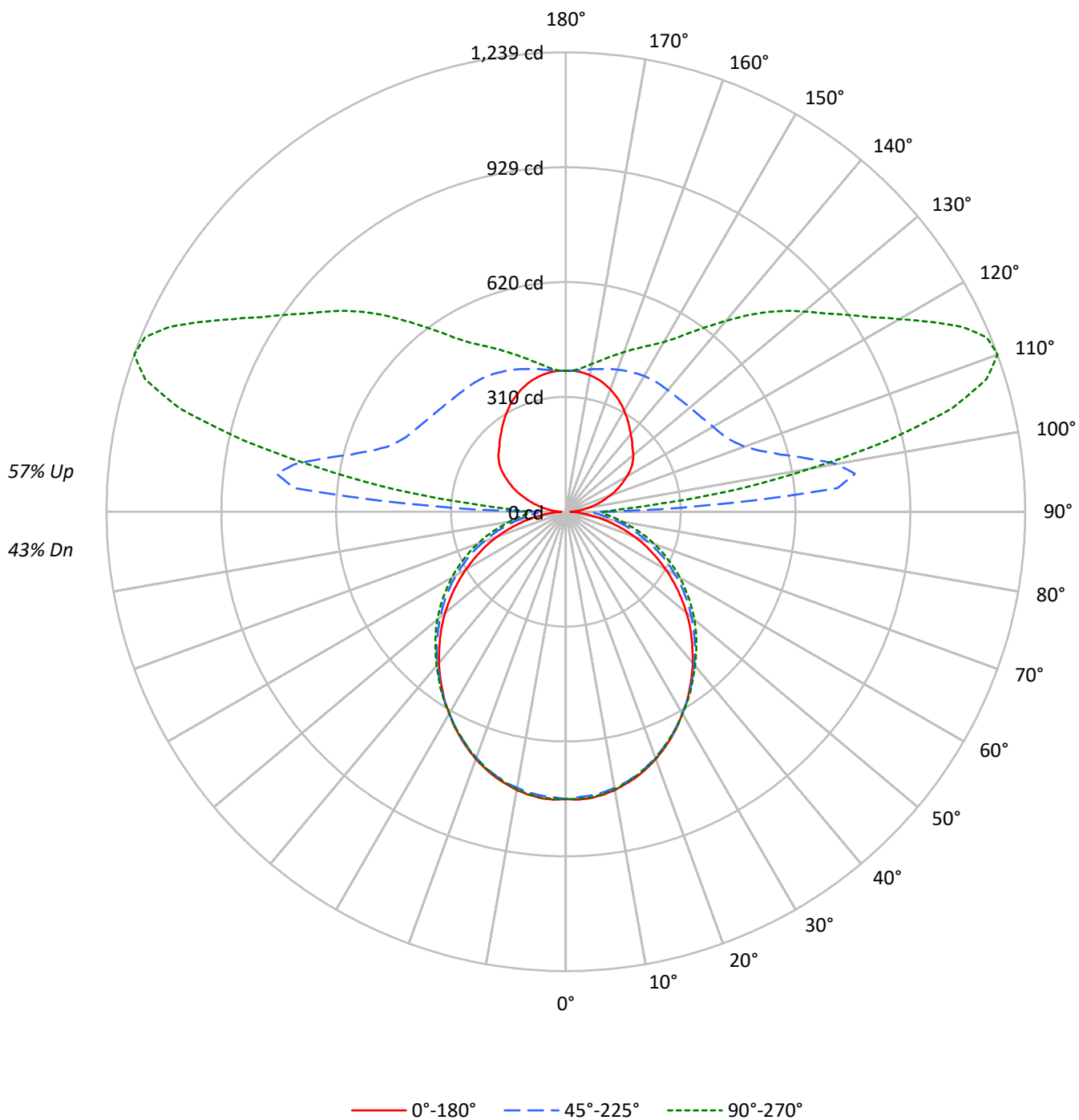
Lumens per Lamp: N/A
Luminaire Lumens: 5265.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.4
10°-20°	208.2	4.0
20°-30°	309.6	5.9
30°-40°	366.7	7.0
40°-50°	379.1	7.2
50°-60°	349.2	6.6
60°-70°	282.3	5.4
70°-80°	188.9	3.6
80°-90°	99.2	1.9
90°-100°	341.5	6.5
100°-110°	635.6	12.1
110°-120°	583.0	11.1
120°-130°	465.1	8.8
130°-140°	368.1	7.0
140°-150°	274.1	5.2
150°-160°	192.1	3.6
160°-170°	113.2	2.1
170°-180°	36.8	0.7
0°-30°	591.2	11.2
0°-40°	957.8	18.2
0°-60°	1686.1	32.0
0°-90°	2256.4	42.9
90°-120°	1560.1	29.6
90°-150°	2667.4	50.7
90°-180°	3009.0	57.1
0°-180°	5265.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	43	75	96	103	10
95°	35	104	735	381	258	34
105°	94	140	598	1152	1079	99
115°	160	197	476	1006	1180	157
125°	218	254	446	795	925	193
135°	253	303	431	658	761	196
145°	294	336	426	535	591	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.0	43.4	74.6	95.9	102.7
92.5°	22.1	95.6	365.3	157.7	138.1
95°	35.2	104.4	735.1	380.6	257.7
97.5°	48.2	108.4	786.4	625.2	468.7
100°	62.1	117.1	741.2	851.6	667.4
102.5°	77.4	128.2	665.4	1042.6	890.6
105°	93.5	140.2	597.9	1151.9	1078.6
107.5°	108.9	153.6	547.3	1180.8	1189.9
110°	125.7	167.8	512.8	1146.7	1239.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.4	182.1	491.4	1079.6	1229.1
115°	159.5	196.7	476.0	1005.5	1180.0
117.5°	174.1	211.6	466.1	937.3	1108.7
120°	189.4	226.6	458.5	880.2	1038.9
122.5°	204.7	240.4	451.6	833.0	976.8
125°	217.8	253.9	445.5	795.1	925.4
127.5°	227.8	267.6	440.9	761.3	878.7
130°	237.8	281.4	437.1	728.0	840.4
132.5°	244.6	293.8	434.0	692.5	802.1
135°	253.1	303.3	431.0	657.6	760.7
137.5°	263.8	313.0	429.5	621.9	717.1
140°	272.3	321.0	428.0	589.0	671.8
142.5°	283.1	327.9	427.2	560.2	629.7
145°	293.8	335.5	426.5	534.9	591.3
147.5°	304.5	342.4	424.9	513.4	556.0
150°	314.5	348.6	422.6	496.3	528.5
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)