

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: P1028164

Luminaire Tested: S125DIP-B610D850UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028164
REPORT IS A COMBINATION OF REPORTS P1002388 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB30-4F0-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

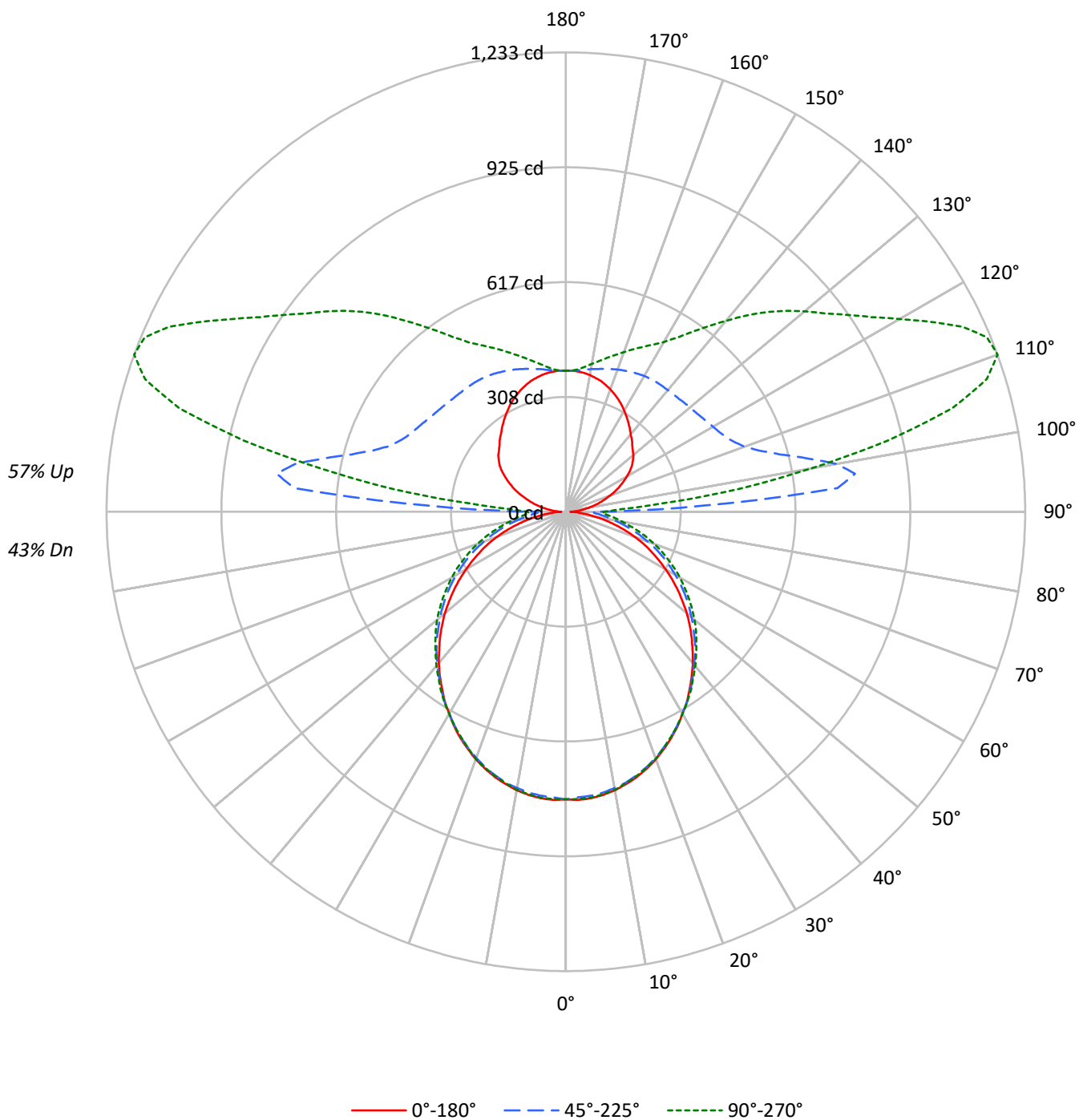
Lumens per Lamp: N/A
Luminaire Lumens: 5242.8 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	27	24
5	66	54	46	40	60	50	43	37	41	36	32	34	30	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°	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	1.4
10°-20°	207.3	4.0
20°-30°	308.3	5.9
30°-40°	365.1	7.0
40°-50°	377.5	7.2
50°-60°	347.7	6.6
60°-70°	281.1	5.4
70°-80°	188.1	3.6
80°-90°	98.7	1.9
90°-100°	339.9	6.5
100°-110°	632.7	12.1
110°-120°	580.3	11.1
120°-130°	463.0	8.8
130°-140°	366.4	7.0
140°-150°	272.9	5.2
150°-160°	191.2	3.6
160°-170°	112.7	2.1
170°-180°	36.6	0.7
0°-30°	588.7	11.2
0°-40°	953.8	18.2
0°-60°	1679.1	32.0
0°-90°	2247.0	42.9
90°-120°	1553.0	29.6
90°-150°	2655.3	50.6
90°-180°	2996.0	57.1
0°-180°	5242.8	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	43	74	96	102	10
95°	35	104	732	379	257	34
105°	93	140	595	1147	1074	98
115°	159	196	474	1001	1175	156
125°	217	253	444	792	921	192
135°	252	302	429	655	757	196
145°	292	334	424	533	589	183
155°	333	358	414	468	488	153
165°	363	373	397	421	428	102
175°	378	378	381	386	384	36
180°	379	379	379	379	379	

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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°	12.9	43.2	74.2	95.6	102.4
92.5°	22.1	95.2	363.6	157.0	137.5
95°	35.0	104.0	731.7	378.8	256.6
97.5°	48.0	107.8	782.9	622.4	466.6
100°	61.7	116.6	737.9	847.7	664.5
102.5°	77.1	127.6	662.3	1037.8	886.7
105°	93.1	139.5	595.2	1146.7	1073.7
107.5°	108.4	152.8	544.8	1175.3	1184.5
110°	125.2	167.1	510.5	1141.4	1233.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.7	181.2	489.1	1074.7	1223.5
115°	158.7	195.8	473.9	1001.0	1174.7
117.5°	173.3	210.7	464.0	933.0	1103.6
120°	188.6	225.6	456.4	876.2	1034.3
122.5°	203.8	239.4	449.5	829.2	972.4
125°	216.8	252.8	443.5	791.5	921.3
127.5°	226.8	266.4	438.9	758.0	874.8
130°	236.7	280.2	435.1	724.8	836.6
132.5°	243.5	292.4	432.1	689.3	798.4
135°	251.9	302.0	429.1	654.6	757.3
137.5°	262.6	311.6	427.6	619.2	713.8
140°	271.1	319.6	426.0	586.2	668.8
142.5°	281.8	326.4	425.3	557.6	626.7
145°	292.5	334.0	424.5	532.6	588.6
147.5°	303.1	340.9	423.0	511.2	553.5
150°	313.0	347.0	420.7	494.0	526.1
152.5°	323.7	353.2	417.7	480.6	505.5
155°	332.9	358.1	413.8	467.7	487.9
157.5°	341.3	363.1	410.0	455.4	471.9
160°	349.7	366.8	406.2	443.2	455.8
162.5°	356.6	370.7	401.6	432.2	441.3
165°	363.4	373.4	397.0	421.1	427.6
167.5°	368.0	374.9	392.5	410.8	414.6
170°	372.6	376.8	388.6	400.8	403.1
172.5°	375.7	377.5	384.1	392.8	392.5
175°	377.9	377.9	381.0	385.6	384.1
177.5°	379.5	377.9	378.7	381.0	378.7
180°	378.7	378.7	378.7	378.7	378.7

(END OF REPORT)