

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: P1028182

Luminaire Tested: S125DIP-B610D850UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028182
REPORT IS A COMBINATION OF REPORTS P1002406 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

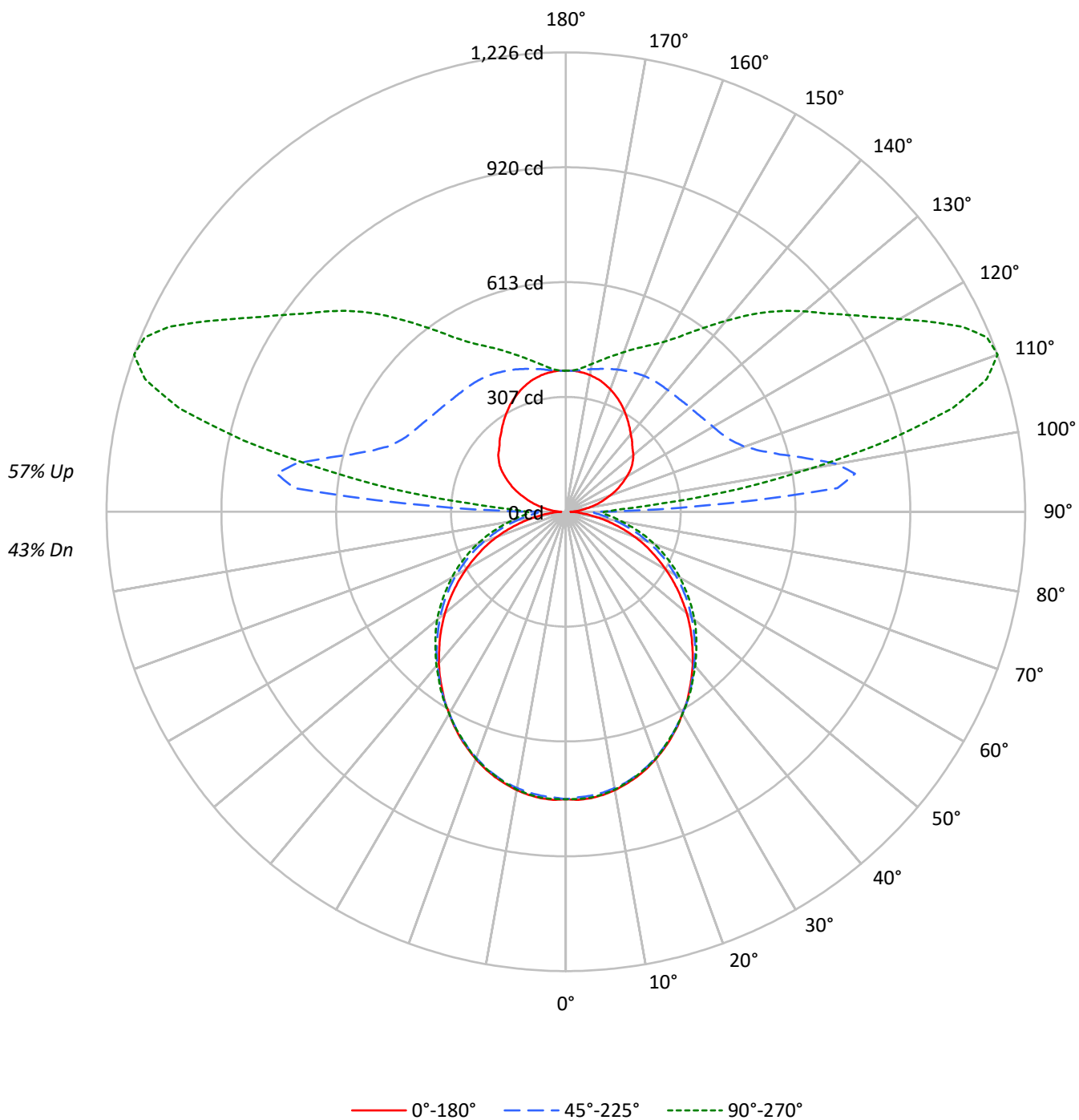
Lumens per Lamp: N/A
Luminaire Lumens: 5212.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1028182

CATALOG NUMBER: S125DIP-B610D850UB40-4F0-XX-W2A-D4

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°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4196 cd/sqm

TEST NUMBER: P1028182

CATALOG NUMBER: S125DIP-B610D850UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.4
10°-20°	206.1	4.0
20°-30°	306.5	5.9
30°-40°	363.0	7.0
40°-50°	375.3	7.2
50°-60°	345.7	6.6
60°-70°	279.5	5.4
70°-80°	187.0	3.6
80°-90°	98.2	1.9
90°-100°	338.0	6.5
100°-110°	629.2	12.1
110°-120°	577.1	11.1
120°-130°	460.4	8.8
130°-140°	364.4	7.0
140°-150°	271.3	5.2
150°-160°	190.1	3.6
160°-170°	112.0	2.1
170°-180°	36.4	0.7
0°-30°	585.2	11.2
0°-40°	948.2	18.2
0°-60°	1669.2	32.0
0°-90°	2233.9	42.9
90°-120°	1544.3	29.6
90°-150°	2640.4	50.7
90°-180°	2979.0	57.1
0°-180°	5212.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	43	74	95	102	10
95°	35	103	728	377	255	34
105°	93	139	592	1140	1068	98
115°	158	195	471	995	1168	156
125°	216	251	441	787	916	191
135°	250	300	427	651	753	194
145°	291	332	422	530	585	182
155°	331	356	412	465	485	152
165°	361	371	395	419	425	102
175°	376	376	379	383	382	36
180°	377	377	377	377	377	

TEST NUMBER: P1028182

CATALOG NUMBER: S125DIP-B610D850UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	12.8	43.0	73.8	95.0	101.8
92.5°	21.9	94.6	361.6	156.0	136.7
95°	34.9	103.3	727.6	376.7	255.1
97.5°	47.7	107.2	778.5	619.0	464.0
100°	61.4	116.0	733.7	842.9	660.7
102.5°	76.6	127.0	658.6	1032.0	881.6
105°	92.6	138.8	591.8	1140.2	1067.7
107.5°	107.7	152.0	541.8	1168.7	1177.8
110°	124.5	166.2	507.6	1134.9	1226.4

TEST NUMBER: P1028182

CATALOG NUMBER: S125DIP-B610D850UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.0	180.2	486.3	1068.6	1216.6
115°	157.9	194.7	471.2	995.4	1168.0
117.5°	172.4	209.4	461.3	927.8	1097.5
120°	187.5	224.3	453.8	871.3	1028.4
122.5°	202.7	238.0	447.0	824.6	967.0
125°	215.6	251.4	441.0	787.0	916.1
127.5°	225.5	265.0	436.4	753.7	869.8
130°	235.4	278.6	432.6	720.7	831.9
132.5°	242.2	290.8	429.6	685.4	794.0
135°	250.5	300.4	426.6	650.9	753.0
137.5°	261.2	309.8	425.2	615.6	709.7
140°	269.6	317.8	423.6	583.0	665.0
142.5°	280.2	324.6	422.9	554.6	623.3
145°	290.8	332.2	422.1	529.6	585.3
147.5°	301.4	339.0	420.6	508.3	550.4
150°	311.3	345.0	418.3	491.2	523.2
152.5°	321.9	351.2	415.3	478.0	502.6
155°	331.0	356.1	411.5	465.0	485.2
157.5°	339.4	361.0	407.7	452.9	469.2
160°	347.7	364.8	403.9	440.8	453.3
162.5°	354.6	368.6	399.4	429.8	438.8
165°	361.4	371.2	394.8	418.7	425.2
167.5°	366.0	372.8	390.2	408.5	412.3
170°	370.5	374.6	386.5	398.6	400.9
172.5°	373.5	375.5	381.9	390.6	390.2
175°	375.8	375.8	378.9	383.4	381.9
177.5°	377.3	375.8	376.6	378.9	376.6
180°	376.6	376.6	376.6	376.6	376.6

(END OF REPORT)