

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: P1028108

Luminaire Tested: S125DIP-B610D610UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028108
REPORT IS A COMBINATION OF REPORTS P1002302 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

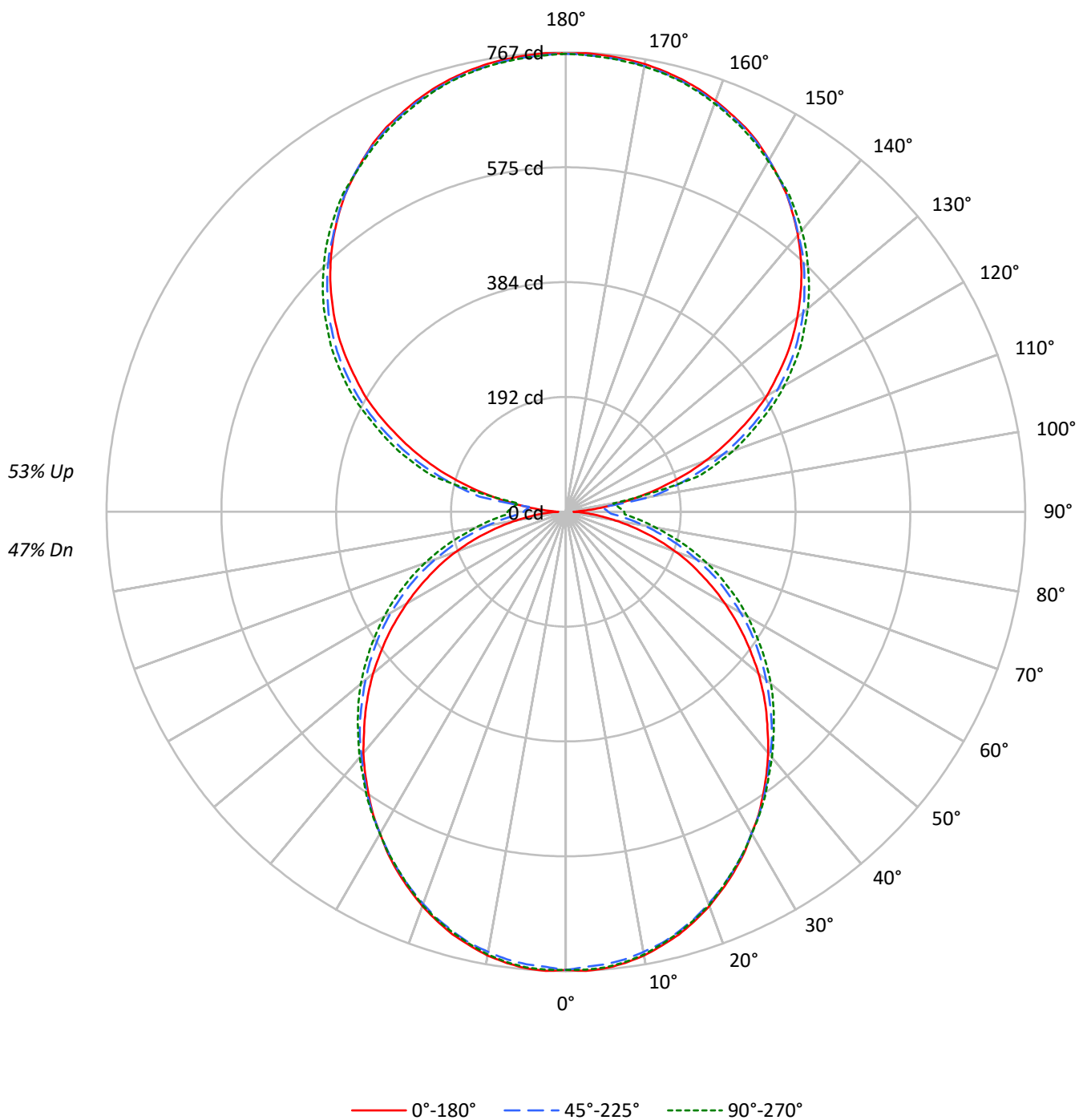
Lumens per Lamp: N/A
Luminaire Lumens: 4720.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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: P1028108

CATALOG NUMBER: S125DIP-B610D610UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1028108

CATALOG NUMBER: S125DIP-B610D610UB27-4F0-XX-W2A-D

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54
1	96	92	88	84	88	84	81	78	71	68	66	58	56	54	46	45	44
2	88	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	31
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	32	29	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	23	20	18
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16
9	49	37	29	24	45	34	27	22	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

TEST NUMBER: P1028108

CATALOG NUMBER: S125DIP-B610D610UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.5
10°-20°	205.5	4.4
20°-30°	305.6	6.5
30°-40°	361.9	7.7
40°-50°	374.2	7.9
50°-60°	344.7	7.3
60°-70°	278.7	5.9
70°-80°	186.5	4.0
80°-90°	97.5	2.1
90°-100°	80.3	1.7
100°-110°	212.6	4.5
110°-120°	337.6	7.2
120°-130°	414.1	8.8
130°-140°	435.7	9.2
140°-150°	404.0	8.6
150°-160°	325.7	6.9
160°-170°	210.6	4.5
170°-180°	72.6	1.5
0°-30°	583.5	12.4
0°-40°	945.4	20.0
0°-60°	1664.3	35.3
0°-90°	2226.9	47.2
90°-120°	630.4	13.4
90°-150°	1884.2	39.9
90°-180°	2493.0	52.8
0°-180°	4720.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	13	41	71	91	98	10
95°	42	60	64	83	88	47
105°	173	188	210	225	230	184
115°	317	326	346	357	358	315
125°	448	451	466	476	478	400
135°	556	559	563	572	572	429
145°	644	644	644	649	648	403
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

TEST NUMBER: P1028108

CATALOG NUMBER: S125DIP-B610D610UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	12.6	41.1	70.6	90.7	97.6
92.5°	21.3	38.0	67.6	86.9	92.8
95°	42.1	59.9	63.9	83.2	88.4
97.5°	69.7	91.1	62.0	78.8	84.7
100°	103.0	120.4	146.6	78.0	80.2
102.5°	136.7	153.3	177.6	193.8	150.7
105°	173.4	187.7	210.2	225.2	229.8
107.5°	211.2	221.7	244.6	260.2	262.4
110°	247.9	256.9	279.0	291.5	297.4

TEST NUMBER: P1028108

CATALOG NUMBER: S125DIP-B610D610UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.0	291.4	312.3	323.5	327.6
115°	317.4	325.5	345.6	356.8	357.9
117.5°	353.5	357.2	378.3	387.6	391.8
120°	387.5	389.2	408.2	419.7	421.4
122.5°	416.8	420.4	437.5	448.4	449.5
125°	448.0	451.2	466.2	476.0	478.0
127.5°	477.3	479.3	491.6	501.6	501.6
130°	504.5	506.5	517.6	526.4	527.4
132.5°	530.9	534.3	540.1	550.6	550.8
135°	556.4	559.1	563.2	571.9	572.2
137.5°	580.2	582.9	584.8	593.8	594.0
140°	602.8	603.9	604.0	613.5	613.1
142.5°	623.7	623.5	624.6	631.4	631.0
145°	644.2	644.5	644.5	648.9	648.5
147.5°	661.5	661.5	662.1	664.1	661.7
150°	678.5	677.4	678.5	679.6	675.9
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)