

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: P1028068

Luminaire Tested: S125DIP-B610D375UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028068
REPORT IS A COMBINATION OF REPORTS P1002247 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

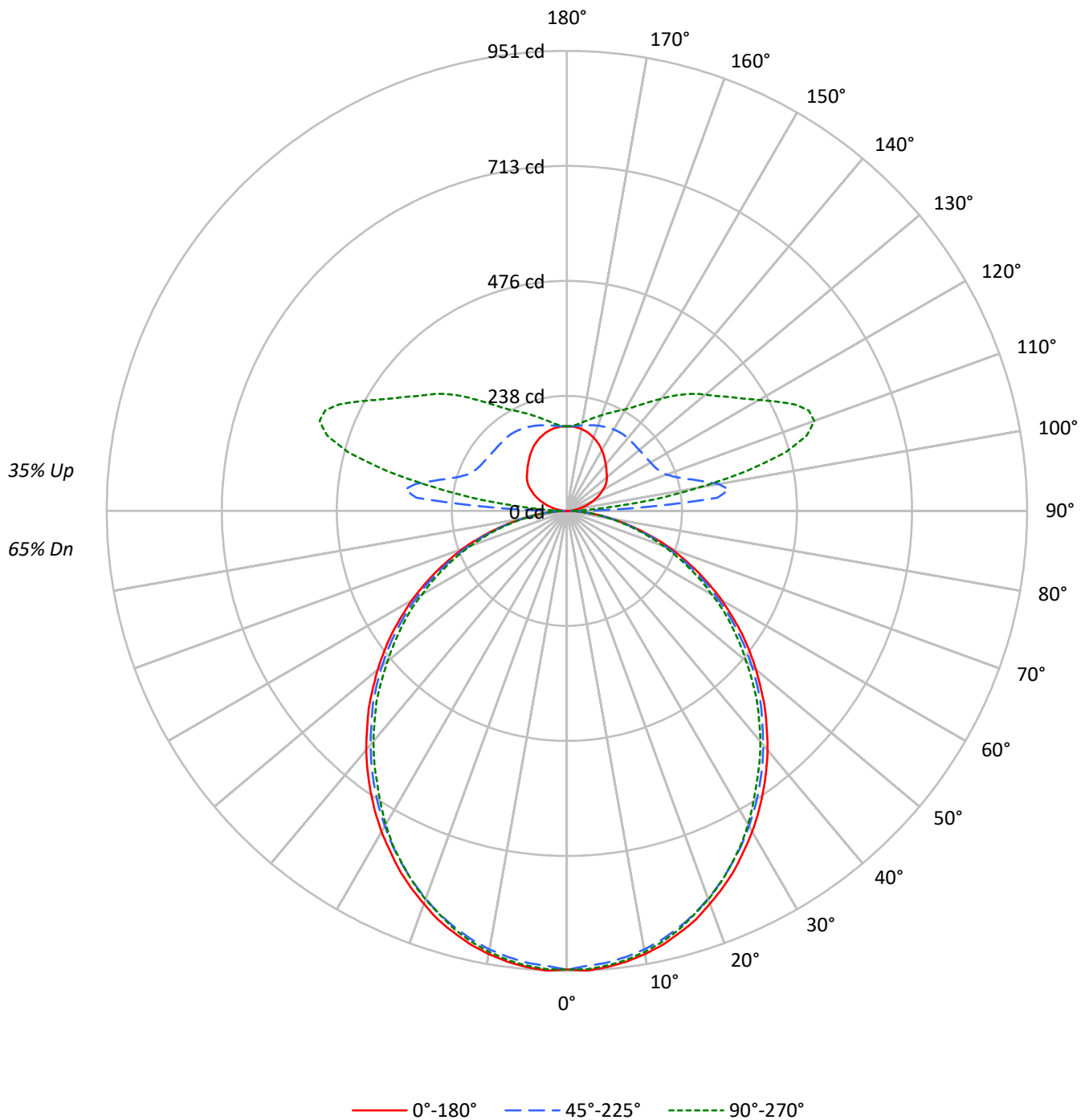
Lumens per Lamp: N/A
Luminaire Lumens: 3784.7 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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: P1028068

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028068

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-F4

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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59
2	92	84	78	73	86	80	74	69	71	66	62	62	59	56	54	52	50
3	84	74	67	61	79	70	63	58	62	57	52	55	51	47	48	45	42
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36
5	71	59	50	44	66	55	48	42	50	43	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	25	22
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6075	5934	5946
10°	6025	5799	5780
15°	5947	5636	5585
20°	5839	5447	5362
25°	5725	5241	5122
30°	5586	5027	4870
35°	5438	4802	4587
40°	5285	4564	4335
45°	5119	4332	4068
50°	4937	4070	3757
55°	4757	3781	3470
60°	4542	3475	3137
65°	4285	3122	2793
70°	4025	2716	2396
75°	3584	2235	1937
80°	3054	1670	1425
85°	2361	988	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5119 cd/sqm

TEST NUMBER: P1028068

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	2.4
10°-20°	252.7	6.7
20°-30°	373.1	9.9
30°-40°	435.3	11.5
40°-50°	437.2	11.6
50°-60°	383.8	10.1
60°-70°	285.9	7.6
70°-80°	163.3	4.3
80°-90°	47.8	1.3
90°-100°	131.7	3.5
100°-110°	273.5	7.2
110°-120°	255.5	6.7
120°-130°	206.7	5.5
130°-140°	166.1	4.4
140°-150°	125.4	3.3
150°-160°	88.3	2.3
160°-170°	52.0	1.4
170°-180°	16.9	0.4
0°-30°	715.3	18.9
0°-40°	1150.7	30.4
0°-60°	1971.7	52.1
0°-90°	2468.7	65.2
90°-120°	660.6	17.5
90°-150°	1158.8	30.6
90°-180°	1316.0	34.8
0°-180°	3784.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	938	944	944	90
15°	902	900	892	896	896	254
25°	819	815	806	807	805	377
35°	707	704	694	690	684	443
45°	579	576	567	558	556	446
55°	441	439	428	422	416	394
65°	298	296	288	281	278	295
75°	158	157	153	151	148	169
85°	41	42	42	41	40	45
90°	0	3	6	7	8	4
95°	12	34	312	142	83	12
105°	40	56	256	503	467	42
115°	71	86	205	442	520	70
125°	99	116	197	352	410	88
135°	116	139	195	295	340	90
145°	135	154	196	244	269	84
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

TEST NUMBER: P1028068

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	951.2	949.0	941.5	949.0	948.2
5°	946.7	945.2	937.7	944.5	943.7
7.5°	940.0	938.5	930.2	937.0	936.2
10°	930.2	928.7	920.5	926.5	925.7
12.5°	918.2	915.2	907.7	912.2	912.2
15°	902.5	900.2	892.0	895.7	895.7
17.5°	886.0	882.2	874.0	878.5	874.7
20°	864.2	862.7	853.0	858.2	854.5
22.5°	842.5	839.5	830.4	833.4	831.2
25°	819.2	815.4	805.7	807.2	804.9
27.5°	792.2	789.9	780.2	780.9	778.7
30°	765.9	763.7	752.4	750.9	748.7
32.5°	737.4	733.7	723.9	720.9	716.4
35°	707.4	704.4	693.9	690.2	684.2
37.5°	676.7	672.9	663.2	657.9	654.2
40°	645.2	641.4	630.9	624.1	621.9
42.5°	611.4	608.4	597.9	591.9	588.1
45°	579.1	576.1	567.1	558.1	555.9
47.5°	543.9	544.6	533.4	524.4	519.1
50°	510.1	507.9	498.9	489.1	483.9
52.5°	475.6	474.1	464.4	456.1	450.1
55°	441.1	438.9	428.4	421.6	416.3
57.5°	404.3	403.6	394.6	385.6	383.3
60°	369.8	366.8	358.6	351.1	345.8
62.5°	333.8	331.6	324.8	316.6	312.8
65°	297.8	296.3	288.1	281.3	278.3
67.5°	262.6	259.6	253.6	247.6	246.1
70°	229.6	225.8	219.1	214.6	211.6
72.5°	193.5	191.3	187.5	182.3	179.3
75°	158.3	156.8	153.0	150.8	147.8
77.5°	125.3	124.5	122.3	120.8	118.5
80°	94.5	94.5	93.0	92.3	90.8
82.5°	67.5	66.0	66.0	64.5	64.5
85°	41.3	42.0	42.0	41.3	39.8
87.5°	20.3	20.3	19.5	19.5	18.0
90°	0.4	3.2	5.6	7.4	8.1
92.5°	5.3	29.0	140.7	37.6	26.1
95°	11.6	34.3	312.3	141.7	82.8
97.5°	18.0	37.2	337.4	256.0	181.5
100°	24.7	42.6	318.3	361.7	275.0
102.5°	32.1	48.8	284.8	451.2	379.3
105°	39.8	55.7	255.6	503.2	467.1
107.5°	47.2	62.9	233.7	517.8	520.0
110°	55.3	70.5	219.3	503.9	543.9



TEST NUMBER: P1028068

CATALOG NUMBER: S125DIP-B610D375UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.5	78.1	210.8	474.8	541.1
115°	71.2	85.8	205.2	442.2	520.3
117.5°	78.3	93.8	202.0	412.6	488.9
120°	85.3	101.4	199.9	387.8	458.6
122.5°	92.7	108.8	198.1	367.8	431.8
125°	98.7	115.6	196.7	351.8	410.0
127.5°	103.6	122.3	196.0	338.1	389.9
130°	108.2	128.7	195.3	324.2	374.0
132.5°	111.7	134.3	195.3	309.2	358.2
135°	115.6	139.0	195.3	294.8	340.5
137.5°	120.6	143.4	195.7	279.9	322.2
140°	124.8	147.2	196.0	266.2	302.8
142.5°	129.7	150.7	196.4	254.4	284.8
145°	134.7	154.2	196.0	244.2	268.6
147.5°	140.0	157.4	195.3	235.3	254.2
150°	144.5	160.2	194.2	228.1	242.5
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)