

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: P1028158

Luminaire Tested: S125DIP-B610D850UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028158
REPORT IS A COMBINATION OF REPORTS P1002367 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB27-4F0-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

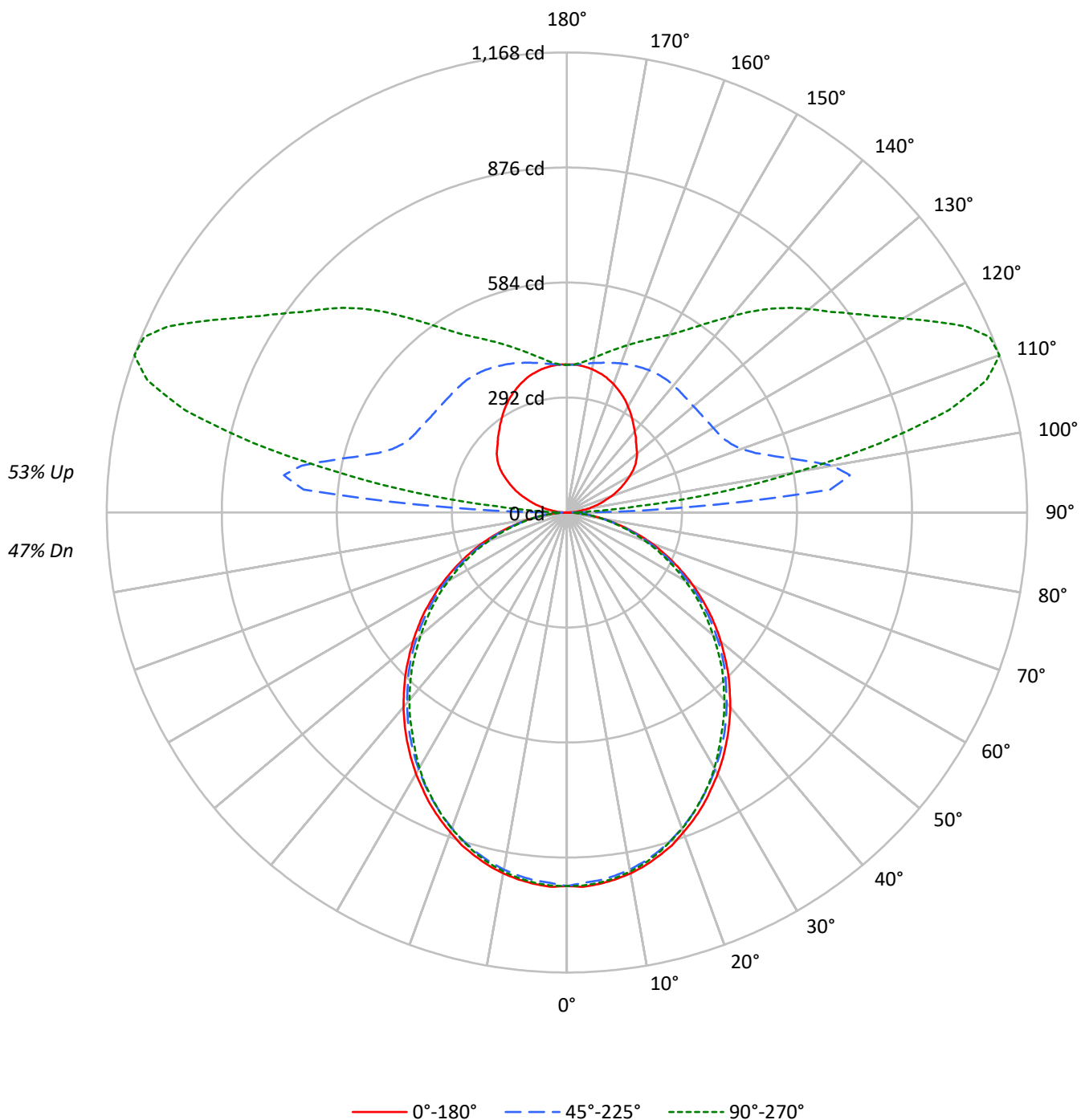
Lumens per Lamp: N/A
Luminaire Lumens: 5295.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028158

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028158

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45
2	88	81	75	70	81	74	69	65	62	59	55	51	49	46	41	39	38
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32
4	74	63	55	49	67	58	51	46	49	44	39	40	37	33	33	30	27
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24
6	62	50	42	36	57	46	39	34	39	34	30	33	29	25	27	23	21
7	57	45	37	32	53	42	35	30	36	30	26	30	26	22	24	21	19
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17
9	50	37	30	25	46	35	28	24	30	24	21	25	21	18	21	17	15
10	46	34	27	22	43	32	25	21	27	22	19	23	19	16	19	16	14

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: P1028158

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.7
10°-20°	252.7	4.8
20°-30°	373.1	7.0
30°-40°	435.3	8.2
40°-50°	437.2	8.3
50°-60°	383.8	7.2
60°-70°	285.9	5.4
70°-80°	163.3	3.1
80°-90°	48.6	0.9
90°-100°	282.8	5.3
100°-110°	587.4	11.1
110°-120°	548.6	10.4
120°-130°	443.9	8.4
130°-140°	356.7	6.7
140°-150°	269.2	5.1
150°-160°	189.6	3.6
160°-170°	111.7	2.1
170°-180°	36.3	0.7
0°-30°	715.3	13.5
0°-40°	1150.7	21.7
0°-60°	1971.7	37.2
0°-90°	2469.5	46.6
90°-120°	1418.8	26.8
90°-150°	2488.7	47.0
90°-180°	2826.0	53.4
0°-180°	5295.8	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°	1	7	12	16	17	5
95°	25	74	671	304	178	26
105°	86	120	549	1081	1003	90
115°	153	184	441	950	1118	151
125°	212	248	422	756	880	188
135°	248	299	419	633	731	193
145°	289	331	421	524	577	181
155°	330	355	410	464	484	152
165°	360	370	394	418	424	102
175°	375	375	378	382	381	36
180°	376	376	376	376	376	

TEST NUMBER: P1028158

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-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°	0.8	6.8	12.1	15.9	17.4
92.5°	11.4	62.1	302.1	80.6	56.0
95°	25.0	73.8	670.8	304.4	177.9
97.5°	38.6	79.9	724.5	549.6	389.9
100°	53.0	91.6	683.7	776.8	590.5
102.5°	68.9	104.8	611.7	969.0	814.6
105°	85.6	119.6	548.9	1080.8	1003.1
107.5°	101.5	135.2	502.0	1112.2	1116.7
110°	118.9	151.4	470.9	1082.2	1168.2

TEST NUMBER: P1028158

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.3	167.7	452.7	1019.8	1162.1
115°	152.9	184.4	440.6	949.8	1117.5
117.5°	168.1	201.4	433.8	886.2	1050.1
120°	183.2	217.6	429.3	832.8	985.0
122.5°	199.1	233.6	425.5	790.0	927.4
125°	212.0	248.4	422.5	755.6	880.5
127.5°	222.6	262.8	420.9	726.0	837.3
130°	232.4	276.4	419.4	696.2	803.3
132.5°	240.0	288.5	419.4	664.0	769.2
135°	248.3	298.7	419.4	633.3	731.4
137.5°	258.9	308.1	420.2	601.2	692.0
140°	268.0	316.1	420.9	571.6	650.3
142.5°	278.6	323.6	421.7	546.2	611.7
145°	289.2	331.2	420.9	524.3	576.9
147.5°	300.6	338.0	419.4	505.4	545.9
150°	310.4	344.1	417.2	489.8	520.9
152.5°	321.0	350.2	414.1	476.6	501.2
155°	330.1	355.1	410.3	463.8	483.8
157.5°	338.4	360.0	406.6	451.6	467.9
160°	346.7	363.8	402.8	439.4	452.0
162.5°	353.6	367.5	398.2	428.5	437.6
165°	360.4	370.2	393.7	417.5	424.0
167.5°	364.9	371.7	389.1	407.3	411.1
170°	369.5	373.6	385.4	397.4	399.7
172.5°	372.5	374.4	380.8	389.5	389.1
175°	374.8	374.8	377.8	382.3	380.8
177.5°	376.3	374.8	375.5	377.8	375.5
180°	375.5	375.5	375.5	375.5	375.5

(END OF REPORT)