

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: P1028154

Luminaire Tested: S125DIP-B610D850UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028154
REPORT IS A COMBINATION OF REPORTS P1002363 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

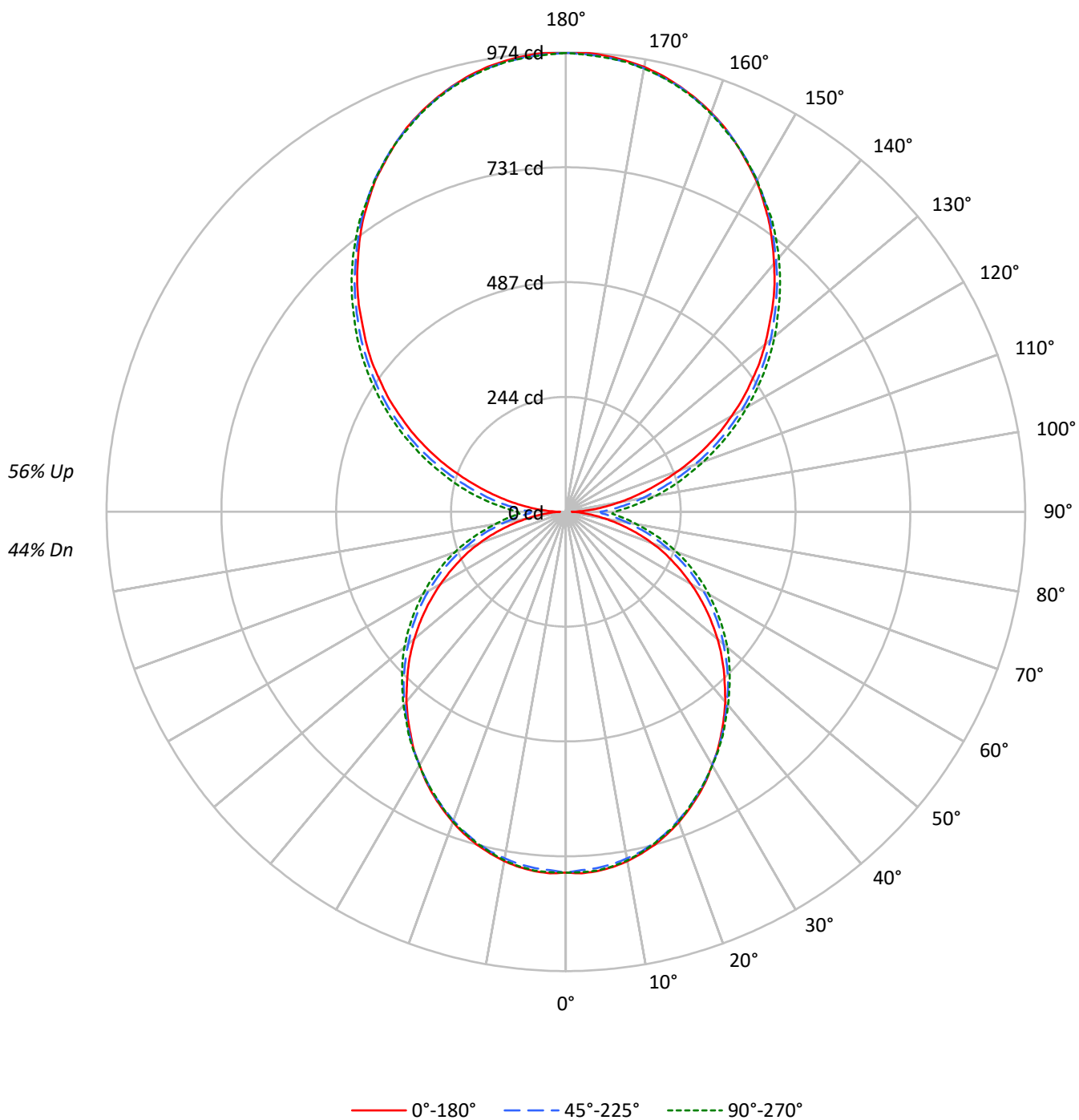
Lumens per Lamp: N/A
Luminaire Lumens: 5087.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P1028154

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1028154

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-D1

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	97	97	97	97	80	80	80	65	65	65	50	50	50
1	96	91	87	83	87	83	80	77	69	66	64	56	54	52	44	42	41
2	87	79	73	68	79	73	67	62	60	56	53	49	46	43	38	36	34
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	33	31	29
4	72	61	53	47	66	56	49	44	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	21
6	61	49	41	35	55	45	38	32	37	32	28	31	26	23	24	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	27	48	37	30	25	31	25	22	25	21	18	20	17	15
9	49	36	29	24	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	21	17	15	17	14	12

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: P1028154

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.4
10°-20°	205.5	4.0
20°-30°	305.6	6.0
30°-40°	361.9	7.1
40°-50°	374.2	7.4
50°-60°	344.7	6.8
60°-70°	278.7	5.5
70°-80°	186.5	3.7
80°-90°	97.9	1.9
90°-100°	119.0	2.3
100°-110°	232.2	4.6
110°-120°	352.8	6.9
120°-130°	444.3	8.7
130°-140°	487.5	9.6
140°-150°	472.7	9.3
150°-160°	395.9	7.8
160°-170°	263.2	5.2
170°-180°	92.1	1.8
0°-30°	583.5	11.5
0°-40°	945.4	18.6
0°-60°	1664.3	32.7
0°-90°	2227.3	43.8
90°-120°	704.0	13.8
90°-150°	2108.6	41.4
90°-180°	2860.0	56.2
0°-180°	5087.1	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	43	74	95	102	12
95°	59	80	113	135	142	59
105°	179	195	222	242	249	191
115°	331	339	360	373	377	327
125°	479	483	499	509	512	429
135°	621	625	631	640	641	479
145°	751	753	756	760	760	469
155°	859	859	859	862	859	396
165°	934	932	933	936	931	263
175°	971	968	968	972	967	92
180°	973	973	973	973	973	

TEST NUMBER: P1028154

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-D1

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°	12.8	42.8	73.6	94.7	102.2
92.5°	33.2	58.8	91.8	113.6	120.4
95°	59.0	80.0	113.1	134.9	141.6
97.5°	84.7	103.5	138.9	159.1	165.2
100°	114.3	130.0	163.8	186.5	192.5
102.5°	146.1	164.1	191.1	213.7	220.5
105°	179.4	195.2	222.3	241.8	249.3
107.5°	215.7	230.0	255.6	272.9	277.4
110°	253.7	266.4	289.7	306.2	310.7

TEST NUMBER: P1028154

CATALOG NUMBER: S125DIP-B610D850UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.0	301.2	324.6	338.8	342.5
115°	330.8	339.2	360.2	372.9	376.7
117.5°	369.5	374.0	394.3	407.7	410.0
120°	405.9	411.8	429.9	442.6	444.1
122.5°	444.4	446.0	464.8	476.0	478.2
125°	479.3	483.1	498.9	509.3	512.3
127.5°	517.2	518.7	532.2	542.7	545.6
130°	551.3	554.2	566.3	576.0	578.3
132.5°	584.5	591.3	598.1	607.8	608.6
135°	620.9	624.7	630.7	640.5	641.1
137.5°	654.9	658.8	663.3	673.1	672.3
140°	686.8	690.6	693.6	703.4	702.6
142.5°	719.4	721.6	724.6	732.2	731.4
145°	751.2	753.4	755.7	759.5	760.2
147.5°	779.9	782.2	783.7	787.4	782.9
150°	809.4	808.7	811.7	811.7	811.0
152.5°	833.7	835.2	835.9	838.2	835.2
155°	858.6	858.6	859.4	862.4	858.6
157.5°	881.4	879.8	880.6	883.6	878.3
160°	901.0	898.8	899.5	902.6	898.8
162.5°	918.5	916.9	916.9	920.7	916.2
165°	933.6	932.1	932.8	935.9	931.3
167.5°	947.2	944.2	944.2	948.7	944.2
170°	957.8	954.8	954.8	959.3	954.0
172.5°	965.4	962.4	962.4	966.9	962.4
175°	970.7	967.7	967.7	972.2	966.9
177.5°	974.5	971.5	970.7	975.2	969.9
180°	973.0	973.0	973.0	973.0	973.0

(END OF REPORT)