

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: P1027926

Luminaire Tested: S125DIP-B375D610UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027926
REPORT IS A COMBINATION OF REPORTS P1002057 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D610UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

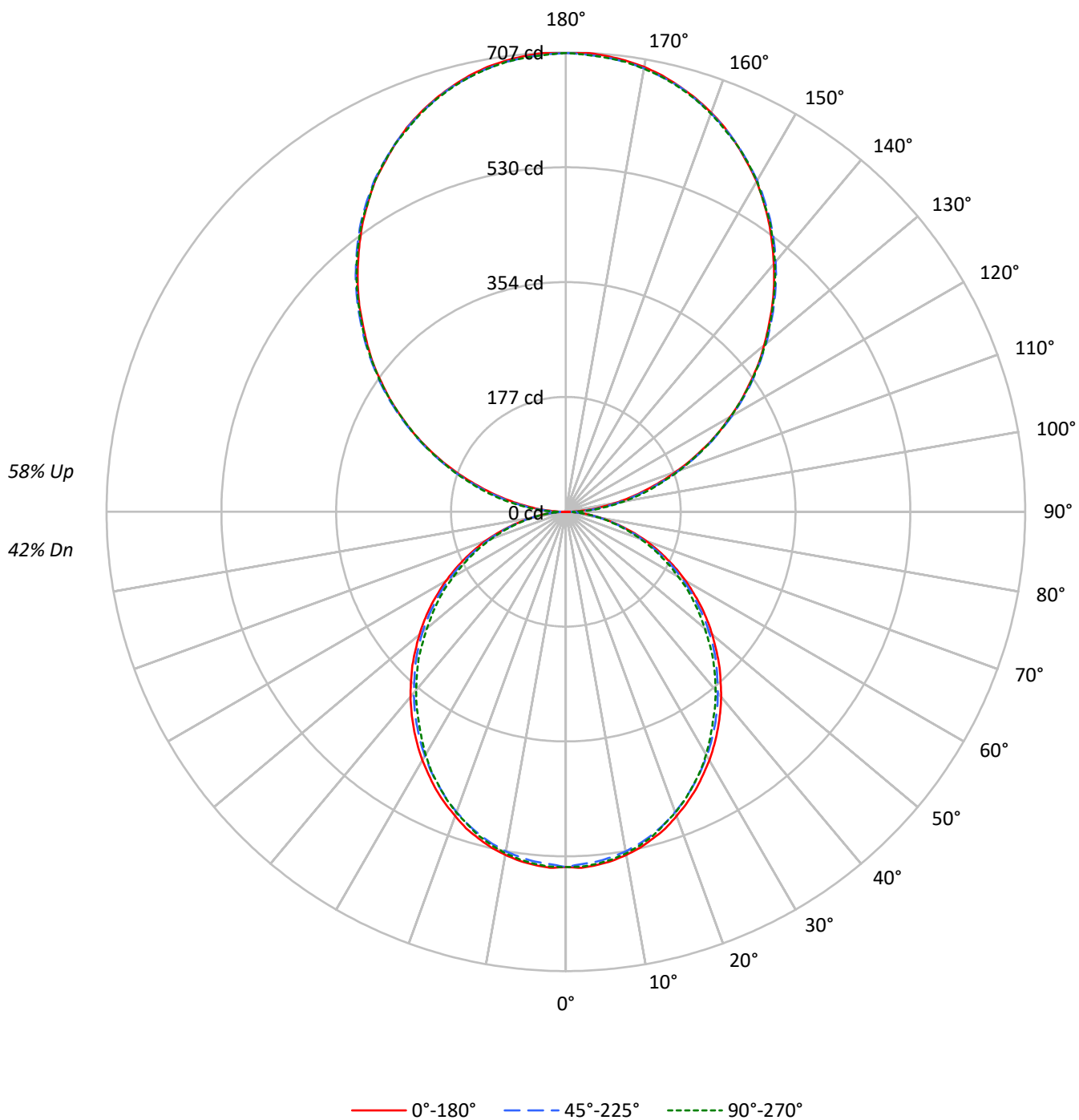
Lumens per Lamp: N/A
Luminaire Lumens: 3395.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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: P1027926

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F1

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	63	63	63	49	49	49
1	96	92	88	84	87	84	80	77	69	67	65	55	54	52	43	42	41
2	87	80	74	69	79	73	68	64	60	57	53	49	46	44	38	36	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22
6	61	50	41	36	56	46	38	33	38	33	29	31	27	24	24	22	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

TEST NUMBER: P1027926

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.5
10°-20°	145.7	4.3
20°-30°	215.1	6.3
30°-40°	251.0	7.4
40°-50°	252.1	7.4
50°-60°	221.3	6.5
60°-70°	164.8	4.9
70°-80°	94.1	2.8
80°-90°	28.3	0.8
90°-100°	47.0	1.4
100°-110°	139.5	4.1
110°-120°	236.6	7.0
120°-130°	311.5	9.2
130°-140°	349.0	10.3
140°-150°	342.1	10.1
150°-160°	287.4	8.5
160°-170°	191.0	5.6
170°-180°	66.8	2.0
0°-30°	412.5	12.1
0°-40°	663.5	19.5
0°-60°	1136.8	33.5
0°-90°	1424.1	41.9
90°-120°	423.1	12.5
90°-150°	1425.7	42.0
90°-180°	1971.0	58.1
0°-180°	3395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	0	5	9	12	13	4
95°	36	37	42	46	47	37
105°	125	128	131	135	136	134
115°	237	239	240	240	239	234
125°	346	349	350	348	348	310
135°	450	453	453	453	451	346
145°	545	547	548	548	547	340
155°	623	623	624	626	623	287
165°	678	676	677	679	676	191
175°	704	702	702	706	702	67
180°	706	706	706	706	706	

TEST NUMBER: P1027926

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	0.5	4.9	8.8	11.5	13.2
92.5°	16.5	19.2	24.2	28.0	29.1
95°	35.7	36.8	42.3	46.2	47.3
97.5°	55.0	55.5	63.2	66.5	67.0
100°	76.9	76.9	84.1	89.0	90.1
102.5°	100.6	103.3	106.1	111.6	113.2
105°	125.3	128.0	131.3	134.6	136.3
107.5°	152.2	155.0	157.7	159.4	159.4
110°	180.3	183.0	184.7	186.3	185.8

TEST NUMBER: P1027926

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.8	209.9	212.1	212.7	211.6
115°	236.9	239.1	240.2	239.6	239.1
117.5°	265.4	266.0	267.1	267.6	265.4
120°	291.8	294.6	295.1	295.1	292.9
122.5°	320.4	320.9	322.6	322.0	320.4
125°	345.7	349.0	349.5	348.4	347.9
127.5°	373.7	375.3	375.9	375.3	374.2
130°	398.4	401.2	402.3	401.7	400.6
132.5°	423.2	428.1	427.6	427.0	425.4
135°	449.5	452.8	453.4	453.4	451.2
137.5°	474.3	477.6	478.7	479.2	476.5
140°	497.9	500.6	502.3	503.4	500.6
142.5°	521.5	523.7	525.9	526.5	523.7
145°	544.6	546.8	548.5	548.5	546.8
147.5°	566.0	567.7	568.8	570.4	566.0
150°	587.5	586.9	589.1	589.1	588.0
152.5°	605.1	606.2	606.7	608.4	606.2
155°	623.2	623.2	623.7	625.9	623.2
157.5°	639.7	638.6	639.1	641.3	637.5
160°	654.0	652.3	652.9	655.1	652.3
162.5°	666.6	665.5	665.5	668.3	665.0
165°	677.6	676.5	677.1	679.3	676.0
167.5°	687.5	685.3	685.3	688.6	685.3
170°	695.2	693.0	693.0	696.3	692.4
172.5°	700.7	698.5	698.5	701.8	698.5
175°	704.5	702.3	702.3	705.6	701.8
177.5°	707.3	705.1	704.5	707.8	704.0
180°	706.2	706.2	706.2	706.2	706.2

(END OF REPORT)