

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: P1027923

Luminaire Tested: S125DIP-B375D610UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027923
REPORT IS A COMBINATION OF REPORTS P1002054 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-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

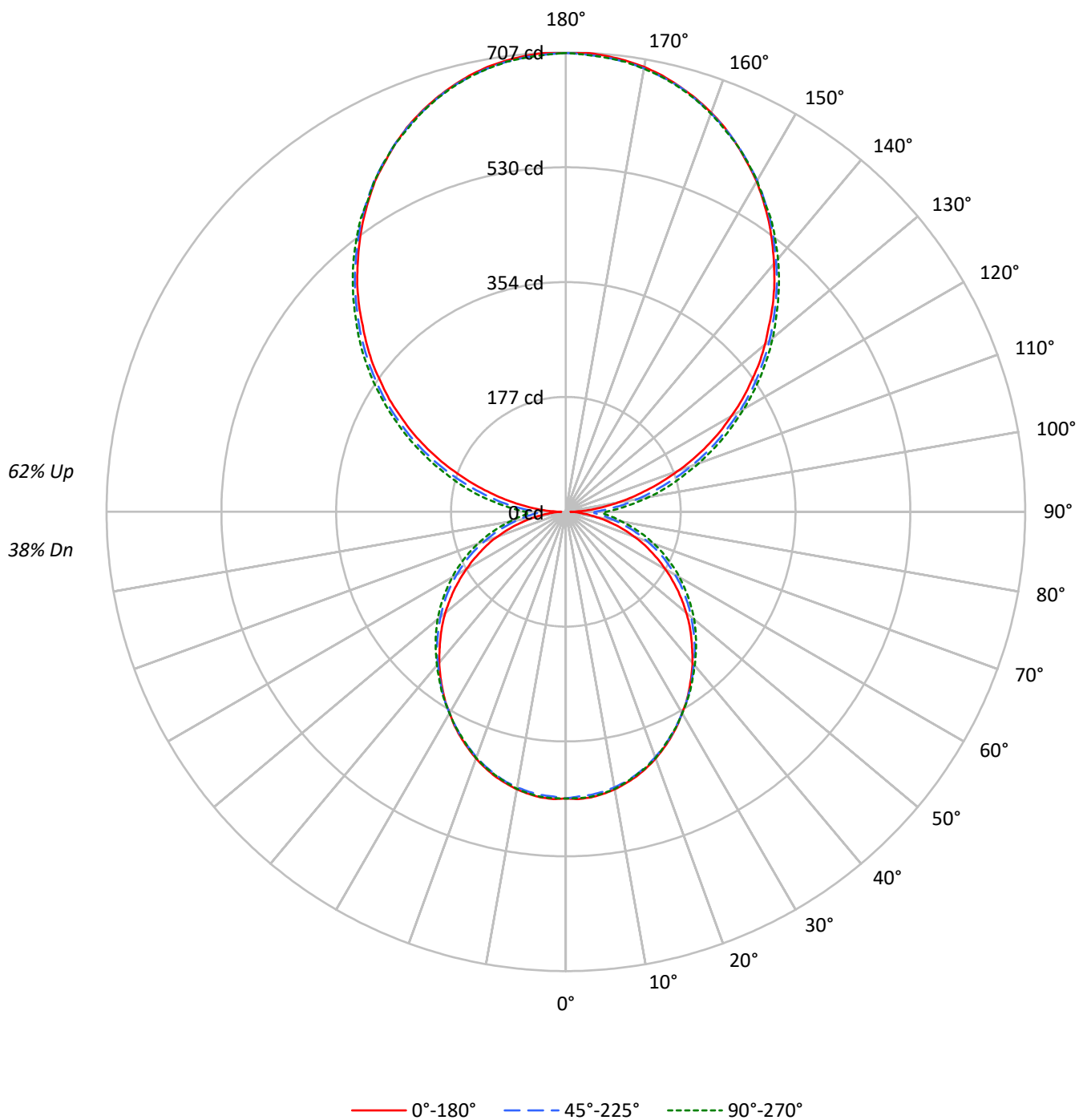
Lumens per Lamp: N/A
Luminaire Lumens: 3339.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V):
Input Current (A_{in}): 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: P1027923

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1027923

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	90	86	82	86	82	78	75	67	64	62	52	51	49	39	38	37
2	86	78	72	67	78	71	66	61	58	54	51	46	43	41	34	33	31
3	78	69	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26
4	71	61	53	47	64	55	48	43	45	40	36	36	32	29	27	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15
8	51	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	26	21	40	30	24	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2413 cd/sqm

TEST NUMBER: P1027923

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.3
10°-20°	118.5	3.6
20°-30°	176.3	5.3
30°-40°	208.8	6.3
40°-50°	215.8	6.5
50°-60°	198.8	6.0
60°-70°	160.7	4.8
70°-80°	107.6	3.2
80°-90°	56.7	1.7
90°-100°	78.3	2.3
100°-110°	162.6	4.9
110°-120°	252.1	7.5
120°-130°	320.2	9.6
130°-140°	352.9	10.6
140°-150°	342.9	10.3
150°-160°	287.4	8.6
160°-170°	191.0	5.7
170°-180°	66.8	2.0
0°-30°	336.6	10.1
0°-40°	545.3	16.3
0°-60°	960.0	28.7
0°-90°	1284.9	38.5
90°-120°	492.9	14.8
90°-150°	1508.8	45.2
90°-180°	2054.0	61.5
0°-180°	3339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	7	26	44	57	62	7
95°	41	54	74	87	91	42
105°	129	139	155	167	172	138
115°	240	245	257	264	266	237
125°	347	350	360	365	367	311
135°	450	453	457	462	462	347
145°	545	547	548	551	551	341
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: P1027923

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.4	25.7	44.3	56.9	61.7
92.5°	22.6	37.8	57.9	71.3	75.4
95°	41.3	53.7	73.9	87.3	91.4
97.5°	60.2	71.1	93.1	105.4	109.0
100°	81.7	90.7	111.8	125.8	129.5
102.5°	104.9	115.8	132.1	146.2	150.4
105°	129.2	138.8	155.1	167.0	171.8
107.5°	155.7	164.5	179.8	190.1	192.7
110°	183.3	191.2	205.0	214.9	217.4

TEST NUMBER: P1027923

CATALOG NUMBER: S125DIP-B375D610UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	216.8	230.7	239.1	241.0
115°	239.5	244.7	257.1	264.3	266.4
117.5°	267.6	270.3	282.2	290.1	290.9
120°	294.0	298.1	308.5	315.9	316.3
122.5°	322.1	323.1	334.3	340.6	341.6
125°	347.4	350.3	359.5	365.3	366.9
127.5°	375.0	376.2	384.1	390.0	391.5
130°	399.7	402.1	409.2	414.7	415.7
132.5°	424.1	429.0	432.8	438.2	438.4
135°	450.4	453.2	456.9	462.5	462.4
137.5°	475.2	478.0	480.9	486.6	485.6
140°	498.3	501.0	503.2	509.0	508.0
142.5°	521.9	523.7	525.9	530.4	529.3
145°	545.0	546.8	548.5	550.7	550.7
147.5°	566.0	567.7	568.8	571.3	567.7
150°	587.5	586.9	589.1	589.1	588.4
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)