

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: P1028146

Luminaire Tested: S125DIP-B610D610UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028146
REPORT IS A COMBINATION OF REPORTS P1002355 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB50-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

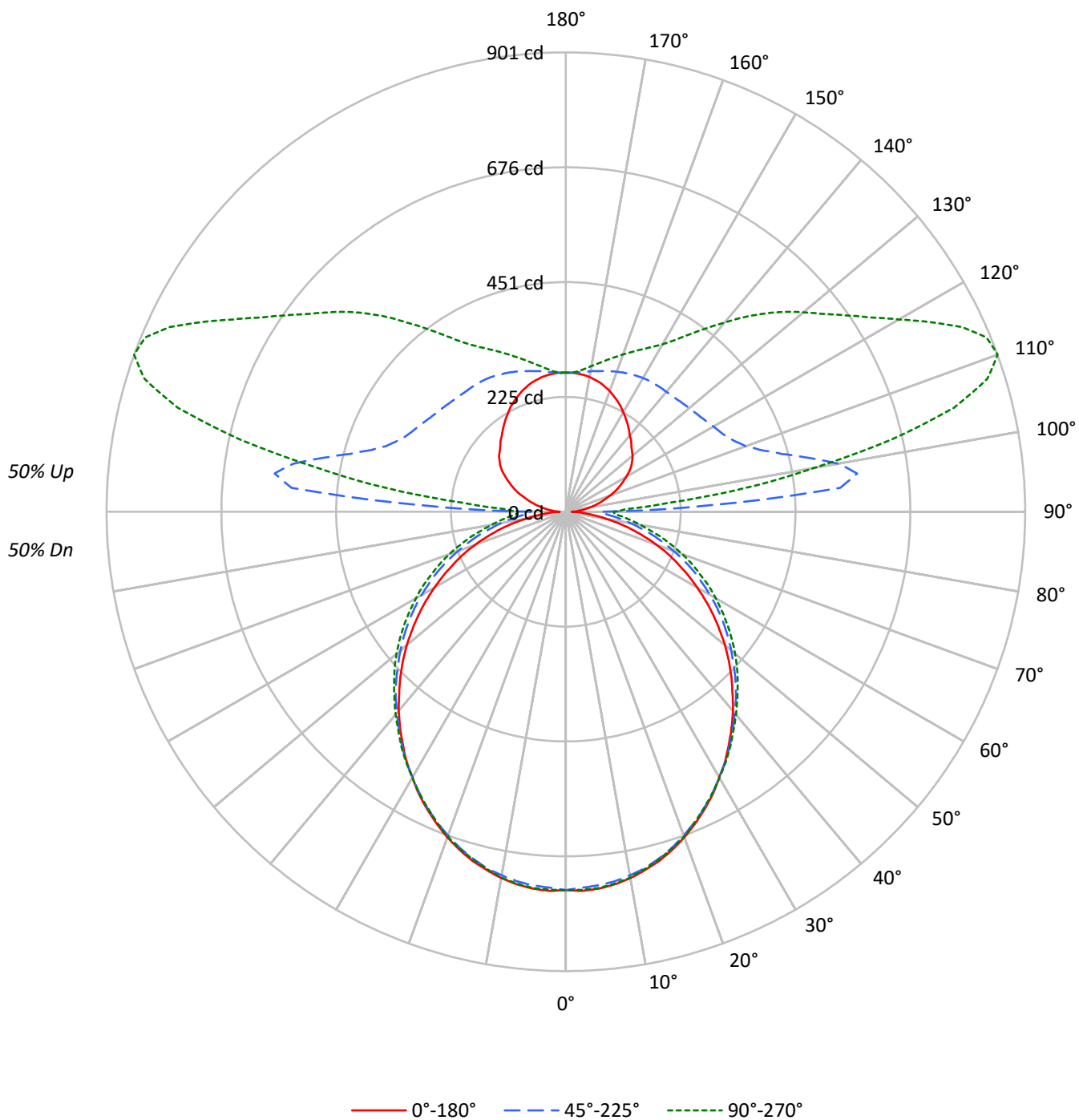
Lumens per Lamp: N/A
Luminaire Lumens: 4352.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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: P1028146

CATALOG NUMBER: S125DIP-B610D610UB50-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1028146

CATALOG NUMBER: S125DIP-B610D610UB50-4F0-XX-W2A-D4

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	59	58	56	48	47	46
2	88	80	74	68	81	74	68	64	62	58	55	52	49	46	42	40	38
3	80	70	63	57	73	65	58	53	55	50	46	46	42	39	37	34	32
4	73	62	54	48	67	57	50	45	49	43	39	40	36	33	33	30	27
5	67	55	47	41	61	51	44	38	43	38	33	36	32	28	30	26	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	23	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	24	21	18
8	53	40	33	27	49	38	30	26	32	27	22	27	23	19	22	19	16
9	49	37	29	24	45	34	27	23	29	24	20	25	21	17	21	17	15
10	46	34	26	22	42	31	25	20	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4058 cd/sqm

TEST NUMBER: P1028146

CATALOG NUMBER: S125DIP-B610D610UB50-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.6
10°-20°	199.4	4.6
20°-30°	296.5	6.8
30°-40°	351.1	8.1
40°-50°	363.0	8.3
50°-60°	334.4	7.7
60°-70°	270.3	6.2
70°-80°	180.9	4.2
80°-90°	94.6	2.2
90°-100°	258.0	5.9
100°-110°	465.3	10.7
110°-120°	424.3	9.7
120°-130°	337.0	7.7
130°-140°	265.4	6.1
140°-150°	196.8	4.5
150°-160°	137.6	3.2
160°-170°	81.1	1.9
170°-180°	26.4	0.6
0°-30°	566.0	13.0
0°-40°	917.1	21.1
0°-60°	1614.5	37.1
0°-90°	2160.2	49.6
90°-120°	1147.6	26.4
90°-150°	1946.9	44.7
90°-180°	2192.0	50.4
0°-180°	4352.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	12	40	68	88	94	9
95°	28	82	540	290	203	26
105°	69	105	438	839	788	72
115°	115	143	348	731	857	114
125°	157	182	323	577	671	139
135°	182	218	310	475	550	141
145°	211	240	306	384	425	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

TEST NUMBER: P1028146

CATALOG NUMBER: S125DIP-B610D610UB50-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.1	39.8	68.5	88.0	94.1
92.5°	18.4	76.4	276.1	131.4	118.6
95°	27.6	82.0	540.1	290.1	203.4
97.5°	36.7	84.2	576.3	464.6	353.7
100°	46.5	89.8	543.0	625.8	495.0
102.5°	57.3	97.2	487.9	761.9	654.1
105°	68.6	105.1	438.5	839.3	788.1
107.5°	79.5	114.2	401.6	859.2	866.8
110°	91.4	123.7	376.1	833.8	901.3

TEST NUMBER: P1028146

CATALOG NUMBER: S125DIP-B610D610UB50-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.0	133.4	360.0	784.8	893.3
115°	115.4	143.4	348.3	731.2	857.2
117.5°	125.6	153.5	340.5	681.2	805.3
120°	136.6	163.9	334.3	639.6	754.5
122.5°	147.5	173.2	328.5	604.9	709.1
125°	156.8	182.5	323.4	577.0	671.3
127.5°	163.8	192.2	319.4	551.9	637.1
130°	171.0	202.2	316.1	527.2	608.7
132.5°	175.8	211.0	313.2	501.0	580.3
135°	181.8	217.6	310.3	475.2	549.9
137.5°	189.5	224.4	308.7	448.8	517.7
140°	195.3	230.2	307.1	424.6	484.6
142.5°	203.0	235.0	306.2	403.1	453.7
145°	210.7	240.5	305.6	384.3	425.4
147.5°	218.2	245.4	304.5	368.4	399.2
150°	225.4	249.8	302.9	355.6	378.9
152.5°	233.1	254.2	300.7	346.0	363.9
155°	239.7	257.8	297.9	336.7	351.3
157.5°	245.7	261.4	295.2	327.9	339.7
160°	251.8	264.2	292.4	319.1	328.2
162.5°	256.7	266.9	289.1	311.2	317.7
165°	261.7	268.8	285.8	303.2	307.8
167.5°	265.0	269.9	282.6	295.7	298.5
170°	268.3	271.3	279.8	288.6	290.2
172.5°	270.5	271.8	276.5	282.8	282.6
175°	272.1	272.1	274.3	277.6	276.5
177.5°	273.2	272.1	272.7	274.3	272.7
180°	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)