

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: P1028099

Luminaire Tested: S125DIP-B610D375UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028099
REPORT IS A COMBINATION OF REPORTS P1002293 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

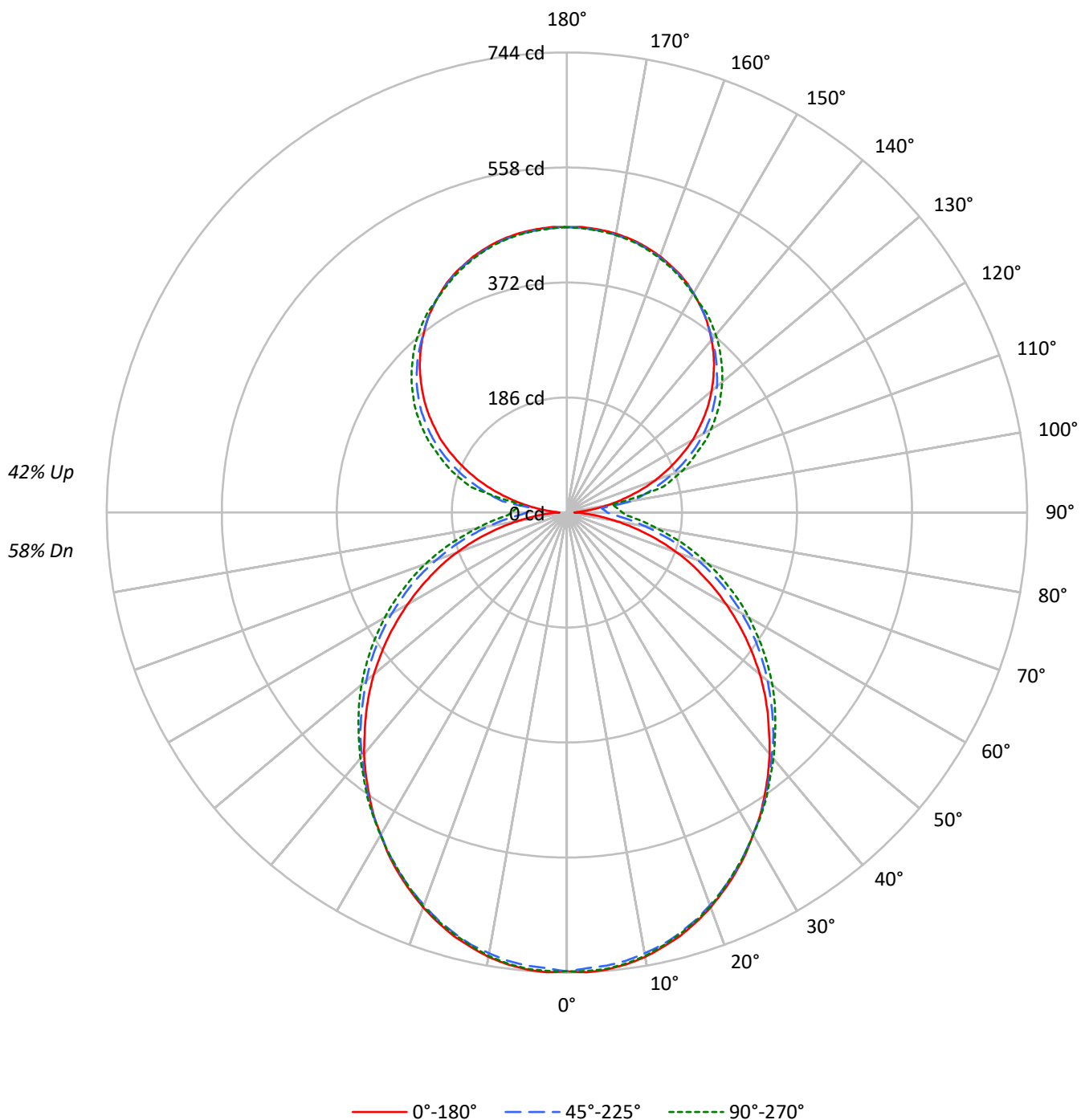
Lumens per Lamp: N/A
Luminaire Lumens: 3717.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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: P1028099

CATALOG NUMBER: S125DIP-B610D375UB50-4F0-XX-W2A-D

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43
3	82	71	64	57	76	67	60	54	58	53	48	50	46	42	42	39	36
4	74	63	55	48	69	59	52	46	51	45	41	44	40	36	37	34	31
5	68	56	48	41	63	53	45	39	46	40	35	40	35	31	34	30	27
6	63	50	42	36	58	47	40	34	41	35	31	36	31	27	30	27	24
7	58	45	37	31	54	43	35	30	37	31	27	32	28	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	26	22	19
9	50	38	30	25	47	35	28	24	31	25	21	27	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	15

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: P1028099

CATALOG NUMBER: S125DIP-B610D375UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.9
10°-20°	199.4	5.4
20°-30°	296.5	8.0
30°-40°	351.1	9.4
40°-50°	363.0	9.8
50°-60°	334.4	9.0
60°-70°	270.3	7.3
70°-80°	180.9	4.9
80°-90°	94.2	2.5
90°-100°	68.3	1.8
100°-110°	142.9	3.8
110°-120°	213.5	5.7
120°-130°	255.4	6.9
130°-140°	265.3	7.1
140°-150°	244.2	6.6
150°-160°	196.5	5.3
160°-170°	127.1	3.4
170°-180°	43.8	1.2
0°-30°	566.0	15.2
0°-40°	917.1	24.7
0°-60°	1614.5	43.4
0°-90°	2159.8	58.1
90°-120°	424.8	11.4
90°-150°	1189.7	32.0
90°-180°	1557.0	41.9
0°-180°	3717.0	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	38	65	84	90	9
95°	29	47	59	76	81	31
105°	107	120	142	156	161	113
115°	193	200	219	231	233	192
125°	271	273	288	298	300	242
135°	336	338	342	351	352	259
145°	389	389	389	393	394	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

TEST NUMBER: P1028099

CATALOG NUMBER: S125DIP-B610D375UB50-4F0-XX-W2A-D

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°	11.9	38.0	65.2	83.6	89.7
92.5°	16.7	34.7	62.3	80.0	85.4
95°	29.0	46.9	58.6	76.3	81.4
97.5°	45.3	64.8	56.4	72.3	77.8
100°	65.1	81.4	106.1	70.4	73.4
102.5°	85.3	100.5	123.7	138.9	114.6
105°	107.1	120.1	141.9	156.5	161.3
107.5°	129.6	139.8	161.6	176.5	179.5
110°	151.5	160.2	181.3	194.0	199.5

TEST NUMBER: P1028099

CATALOG NUMBER: S125DIP-B610D375UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.7	180.2	200.3	212.0	216.4
115°	193.2	200.0	219.3	231.0	233.2
117.5°	214.6	218.3	237.9	248.1	252.6
120°	235.2	237.0	254.8	266.5	269.1
122.5°	252.6	255.0	271.3	282.3	284.7
125°	271.4	273.1	287.6	297.9	300.5
127.5°	288.8	289.8	301.8	312.0	313.7
130°	305.2	306.2	316.7	325.9	327.9
132.5°	321.0	323.0	329.2	339.4	340.6
135°	336.3	337.6	342.0	350.8	352.4
137.5°	350.7	352.0	354.2	363.0	364.2
140°	363.9	364.6	365.1	373.8	374.6
142.5°	376.6	376.2	376.9	383.4	384.4
145°	388.9	388.9	388.9	392.8	393.7
147.5°	399.1	399.1	399.5	401.3	400.3
150°	409.4	408.7	409.4	410.1	408.1
152.5°	419.3	417.6	418.3	419.0	416.6
155°	427.5	425.5	426.2	427.2	424.5
157.5°	434.0	433.0	433.0	434.0	431.3
160°	440.9	438.8	439.2	440.5	437.8
162.5°	446.3	444.3	444.6	446.7	443.6
165°	451.1	449.1	449.4	451.5	448.7
167.5°	454.9	452.8	453.2	455.6	452.5
170°	458.0	455.6	455.9	458.7	455.6
172.5°	460.0	457.6	458.3	460.7	457.6
175°	461.4	459.3	459.7	462.4	459.3
177.5°	462.4	460.4	460.7	463.1	460.4
180°	461.4	461.4	461.4	461.4	461.4

(END OF REPORT)