

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: P1028102

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028102
REPORT IS A COMBINATION OF REPORTS P1002296 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-F
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

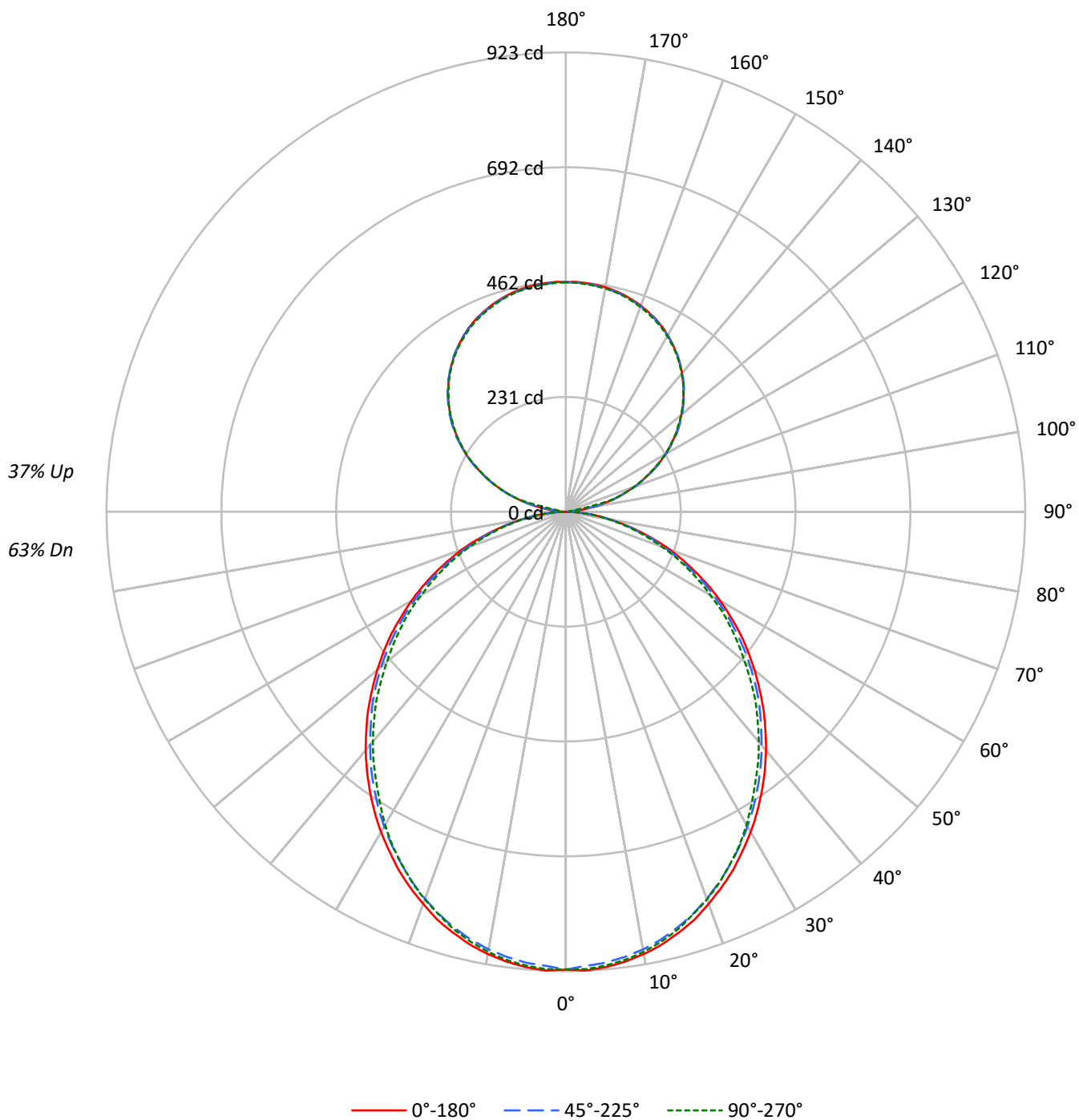
Lumens per Lamp: N/A
Luminaire Lumens: 3812.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	59	57
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	47	44	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	38	34	31
6	65	52	44	38	61	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	34	28	36	30	26	32	27	24	29	25	22
9	52	39	32	27	49	37	30	26	34	28	23	30	25	21	26	22	20
10	49	36	29	24	46	34	28	23	31	25	21	28	23	19	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5893	5893	5893
5°	5893	5756	5767
10°	5845	5625	5607
15°	5768	5466	5418
20°	5664	5284	5200
25°	5553	5084	4968
30°	5419	4876	4723
35°	5275	4658	4449
40°	5127	4428	4206
45°	4966	4203	3946
50°	4789	3948	3645
55°	4615	3667	3367
60°	4406	3371	3044
65°	4157	3028	2710
70°	3904	2634	2324
75°	3476	2168	1880
80°	2963	1619	1381
85°	2287	959	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	2.3
10°-20°	245.2	6.4
20°-30°	361.9	9.5
30°-40°	422.3	11.1
40°-50°	424.1	11.1
50°-60°	372.3	9.8
60°-70°	277.3	7.3
70°-80°	158.4	4.2
80°-90°	46.4	1.2
90°-100°	15.7	0.4
100°-110°	104.1	2.7
110°-120°	187.5	4.9
120°-130°	240.7	6.3
130°-140°	258.9	6.8
140°-150°	243.0	6.4
150°-160°	196.5	5.2
160°-170°	127.1	3.3
170°-180°	43.8	1.1
0°-30°	693.9	18.2
0°-40°	1116.2	29.3
0°-60°	1912.6	50.2
0°-90°	2394.7	62.8
90°-120°	307.3	8.1
90°-150°	1049.8	27.5
90°-180°	1417.0	37.2
0°-180°	3812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	917	910	916	915	87
15°	875	873	865	869	869	247
25°	795	791	782	783	781	366
35°	686	683	673	670	664	429
45°	562	559	550	541	539	433
55°	428	426	416	409	404	382
65°	289	287	279	273	270	287
75°	154	152	148	146	143	163
85°	40	41	41	40	39	44
90°	0	3	6	7	8	4
95°	20	18	6	7	7	24
105°	101	102	102	102	102	107
115°	189	190	191	190	187	187
125°	268	271	271	270	268	240
135°	335	337	336	336	334	258
145°	388	389	389	389	387	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.8	919.8	919.8	919.8	919.8
2.5°	922.7	920.5	913.2	920.5	919.8
5°	918.3	916.9	909.6	916.2	915.4
7.5°	911.8	910.3	902.3	908.9	908.2
10°	902.3	900.9	892.9	898.7	898.0
12.5°	890.7	887.8	880.5	884.9	884.9
15°	875.4	873.2	865.2	868.9	868.9
17.5°	859.4	855.8	847.8	852.1	848.5
20°	838.3	836.8	827.4	832.5	828.8
22.5°	817.2	814.3	805.5	808.5	806.3
25°	794.6	791.0	781.5	783.0	780.8
27.5°	768.4	766.3	756.8	757.5	755.3
30°	743.0	740.8	729.9	728.4	726.2
32.5°	715.3	711.7	702.2	699.3	694.9
35°	686.2	683.3	673.1	669.5	663.6
37.5°	656.4	652.7	643.3	638.2	634.5
40°	625.8	622.2	612.0	605.4	603.3
42.5°	593.1	590.2	580.0	574.1	570.5
45°	561.8	558.9	550.1	541.4	539.2
47.5°	527.6	528.3	517.4	508.7	503.6
50°	494.8	492.6	483.9	474.5	469.4
52.5°	461.4	459.9	450.4	442.4	436.6
55°	427.9	425.7	415.5	409.0	403.9
57.5°	392.2	391.5	382.8	374.0	371.8
60°	358.7	355.8	347.8	340.6	335.5
62.5°	323.8	321.6	315.1	307.1	303.4
65°	288.9	287.4	279.4	272.9	270.0
67.5°	254.7	251.8	246.0	240.1	238.7
70°	222.7	219.0	212.5	208.1	205.2
72.5°	187.7	185.6	181.9	176.8	173.9
75°	153.5	152.1	148.4	146.3	143.4
77.5°	121.5	120.8	118.6	117.2	115.0
80°	91.7	91.7	90.2	89.5	88.0
82.5°	65.5	64.0	64.0	62.6	62.6
85°	40.0	40.8	40.8	40.0	38.6
87.5°	19.6	19.6	18.9	18.9	17.5
90°	0.3	3.1	5.5	7.2	8.2
92.5°	6.5	3.4	5.5	7.2	7.5
95°	19.5	18.5	5.5	7.2	7.2
97.5°	36.6	38.6	6.2	6.8	7.2
100°	57.1	58.1	59.5	8.6	7.2
102.5°	78.0	79.4	80.0	80.7	52.0
105°	100.6	101.9	101.9	101.9	101.6
107.5°	123.8	123.8	124.5	124.8	123.5
110°	146.4	146.4	147.1	146.0	146.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	168.6	169.0	167.6	166.9
115°	188.8	190.5	190.9	189.5	187.4
117.5°	211.0	211.0	212.4	210.3	209.7
120°	231.6	231.2	232.2	231.6	229.8
122.5°	249.7	251.4	251.7	251.0	249.0
125°	268.5	270.9	270.9	269.5	268.5
127.5°	286.6	288.3	288.0	287.3	284.6
130°	303.0	304.7	305.1	304.1	302.4
132.5°	319.5	321.5	320.5	320.5	318.8
135°	334.8	336.9	336.2	335.5	333.5
137.5°	349.2	351.3	350.6	350.6	348.9
140°	363.2	363.9	363.6	364.3	362.2
142.5°	375.9	376.2	376.9	376.9	374.9
145°	388.2	388.9	388.9	389.2	387.2
147.5°	399.1	399.1	399.5	399.8	397.4
150°	409.4	408.7	409.4	410.1	407.4
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

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