

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: P1028013

Luminaire Tested: S125DIP-B610D1090UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028013
REPORT IS A COMBINATION OF REPORTS P1002177 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB50-4F0-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

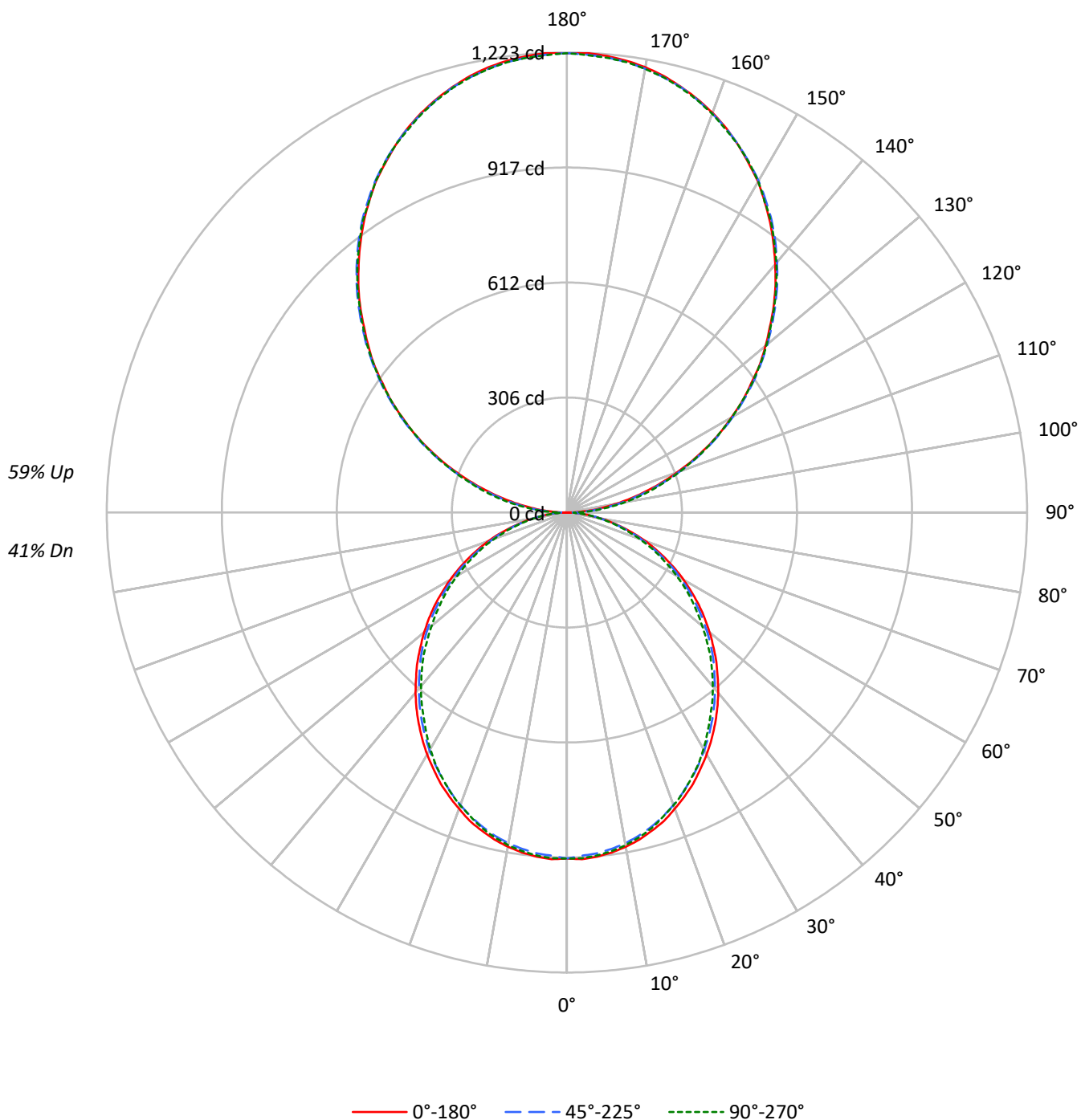
Lumens per Lamp: N/A
Luminaire Lumens: 5804.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 52.5
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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	91	88	84	87	84	80	77	69	66	64	55	53	52	42	41	41
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	27	48	37	30	26	31	26	22	26	22	19	20	17	15
9	49	37	29	24	45	34	27	23	29	23	20	23	20	17	19	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12

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	1.5
10°-20°	245.2	4.2
20°-30°	361.9	6.2
30°-40°	422.3	7.3
40°-50°	424.1	7.3
50°-60°	372.3	6.4
60°-70°	277.3	4.8
70°-80°	158.4	2.7
80°-90°	47.6	0.8
90°-100°	81.2	1.4
100°-110°	241.2	4.2
110°-120°	409.1	7.0
120°-130°	538.6	9.3
130°-140°	603.5	10.4
140°-150°	591.6	10.2
150°-160°	496.9	8.6
160°-170°	330.3	5.7
170°-180°	115.6	2.0
0°-30°	693.9	12.0
0°-40°	1116.2	19.2
0°-60°	1912.6	33.0
0°-90°	2395.9	41.3
90°-120°	731.6	12.6
90°-150°	2465.3	42.5
90°-180°	3408.0	58.7
0°-180°	5804.0	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°	1	9	15	20	23	7
95°	62	64	73	80	82	65
105°	217	221	227	233	236	231
115°	410	413	415	414	413	405
125°	598	603	604	602	602	536
135°	777	783	784	784	780	599
145°	942	946	948	948	946	589
155°	1078	1078	1079	1082	1078	496
165°	1172	1170	1171	1175	1169	331
175°	1218	1214	1214	1220	1214	116
180°	1221	1221	1221	1221	1221	

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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°	1.0	8.6	15.2	20.0	22.8
92.5°	28.5	33.3	41.8	48.5	50.4
95°	61.8	63.7	73.2	79.8	81.7
97.5°	95.0	96.0	109.3	115.0	115.9
100°	133.0	133.0	145.4	153.9	155.8
102.5°	173.9	178.7	183.4	192.9	195.8
105°	216.7	221.4	227.1	232.8	235.7
107.5°	263.2	268.0	272.7	275.6	275.6
110°	311.7	316.5	319.3	322.2	321.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.1	363.0	366.8	367.8	365.9
115°	409.6	413.4	415.3	414.3	413.4
117.5°	459.0	459.9	461.8	462.8	459.0
120°	504.6	509.4	510.3	510.3	506.5
122.5°	554.0	555.0	557.8	556.9	554.0
125°	597.7	603.4	604.4	602.5	601.5
127.5°	646.2	649.1	650.0	649.1	647.2
130°	689.0	693.7	695.6	694.7	692.8
132.5°	731.7	740.3	739.3	738.4	735.5
135°	777.3	783.0	784.0	784.0	780.2
137.5°	820.1	825.8	827.7	828.7	823.9
140°	861.0	865.7	868.6	870.5	865.7
142.5°	901.8	905.6	909.4	910.4	905.6
145°	941.7	945.6	948.4	948.4	945.6
147.5°	978.8	981.7	983.6	986.4	978.8
150°	1015.9	1014.9	1018.7	1018.7	1016.8
152.5°	1046.3	1048.2	1049.1	1052.0	1048.2
155°	1077.6	1077.6	1078.6	1082.4	1077.6
157.5°	1106.2	1104.3	1105.2	1109.0	1102.4
160°	1130.9	1128.0	1129.0	1132.8	1128.0
162.5°	1152.7	1150.8	1150.8	1155.6	1149.9
165°	1171.7	1169.8	1170.8	1174.6	1168.9
167.5°	1188.8	1185.0	1185.0	1190.7	1185.0
170°	1202.1	1198.3	1198.3	1204.0	1197.4
172.5°	1211.6	1207.8	1207.8	1213.5	1207.8
175°	1218.3	1214.5	1214.5	1220.2	1213.5
177.5°	1223.0	1219.2	1218.3	1224.0	1217.3
180°	1221.1	1221.1	1221.1	1221.1	1221.1

(END OF REPORT)