

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: P1028058

Luminaire Tested: S125DIP-B610D1270UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028058
REPORT IS A COMBINATION OF REPORTS P1002237 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB50-4F0-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

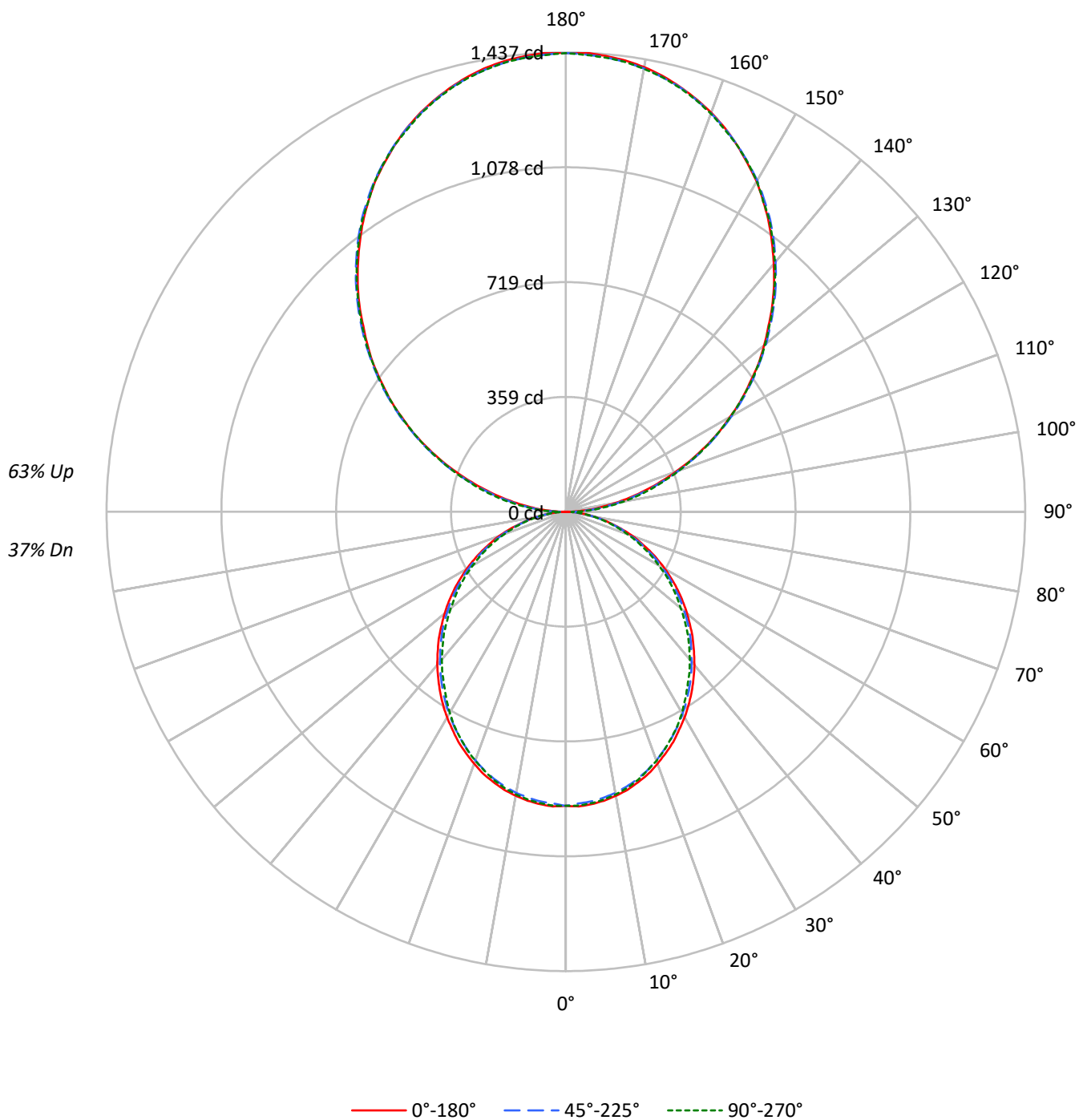
Lumens per Lamp: N/A
Luminaire Lumens: 6401.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	95	91	87	83	86	82	79	76	67	65	62	52	51	50	39	38	38
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32
3	79	69	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	20	18
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11

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	1.4
10°-20°	245.2	3.8
20°-30°	361.9	5.7
30°-40°	422.3	6.6
40°-50°	424.1	6.6
50°-60°	372.3	5.8
60°-70°	277.3	4.3
70°-80°	158.4	2.5
80°-90°	48.0	0.7
90°-100°	95.4	1.5
100°-110°	283.5	4.4
110°-120°	480.8	7.5
120°-130°	632.9	9.9
130°-140°	709.2	11.1
140°-150°	695.1	10.9
150°-160°	583.9	9.1
160°-170°	388.1	6.1
170°-180°	135.8	2.1
0°-30°	693.9	10.8
0°-40°	1116.2	17.4
0°-60°	1912.6	29.9
0°-90°	2396.2	37.4
90°-120°	859.7	13.4
90°-150°	2896.9	45.3
90°-180°	4005.0	62.6
0°-180°	6401.0	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	10	18	24	27	8
95°	73	75	86	94	96	76
105°	255	260	267	274	277	271
115°	481	486	488	487	486	476
125°	702	709	710	708	707	629
135°	913	920	921	921	917	704
145°	1107	1111	1114	1114	1111	692
155°	1266	1266	1267	1272	1266	583
165°	1377	1375	1376	1380	1374	388
175°	1432	1427	1427	1434	1426	136
180°	1435	1435	1435	1435	1435	

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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°	1.1	10.1	17.9	23.5	26.8
92.5°	33.5	39.1	49.1	57.0	59.2
95°	72.6	74.8	86.0	93.8	96.0
97.5°	111.7	112.8	128.4	135.1	136.2
100°	156.3	156.3	170.9	180.9	183.1
102.5°	204.4	209.9	215.5	226.7	230.0
105°	254.6	260.2	266.9	273.6	276.9
107.5°	309.3	314.9	320.5	323.8	323.8
110°	366.3	371.9	375.2	378.6	377.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	424.3	426.6	431.0	432.2	429.9
115°	481.3	485.8	488.0	486.9	485.8
117.5°	539.4	540.5	542.7	543.8	539.4
120°	593.0	598.5	599.7	599.7	595.2
122.5°	651.0	652.1	655.5	654.4	651.0
125°	702.4	709.1	710.2	708.0	706.9
127.5°	759.3	762.7	763.8	762.7	760.5
130°	809.6	815.2	817.4	816.3	814.1
132.5°	859.8	869.9	868.8	867.7	864.3
135°	913.4	920.1	921.3	921.3	916.8
137.5°	963.7	970.4	972.6	973.7	968.2
140°	1011.7	1017.3	1020.6	1022.9	1017.3
142.5°	1059.7	1064.2	1068.7	1069.8	1064.2
145°	1106.6	1111.1	1114.4	1114.4	1111.1
147.5°	1150.2	1153.5	1155.8	1159.1	1150.2
150°	1193.7	1192.6	1197.1	1197.1	1194.8
152.5°	1229.5	1231.7	1232.8	1236.2	1231.7
155°	1266.3	1266.3	1267.4	1271.9	1266.3
157.5°	1299.8	1297.6	1298.7	1303.2	1295.3
160°	1328.8	1325.5	1326.6	1331.1	1325.5
162.5°	1354.5	1352.3	1352.3	1357.9	1351.2
165°	1376.9	1374.6	1375.7	1380.2	1373.5
167.5°	1397.0	1392.5	1392.5	1399.2	1392.5
170°	1412.6	1408.1	1408.1	1414.8	1407.0
172.5°	1423.8	1419.3	1419.3	1426.0	1419.3
175°	1431.6	1427.1	1427.1	1433.8	1426.0
177.5°	1437.2	1432.7	1431.6	1438.3	1430.5
180°	1434.9	1434.9	1434.9	1434.9	1434.9

(END OF REPORT)