

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: P1028022

Luminaire Tested: S125DIP-B610D1270UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028022
REPORT IS A COMBINATION OF REPORTS P1002186 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

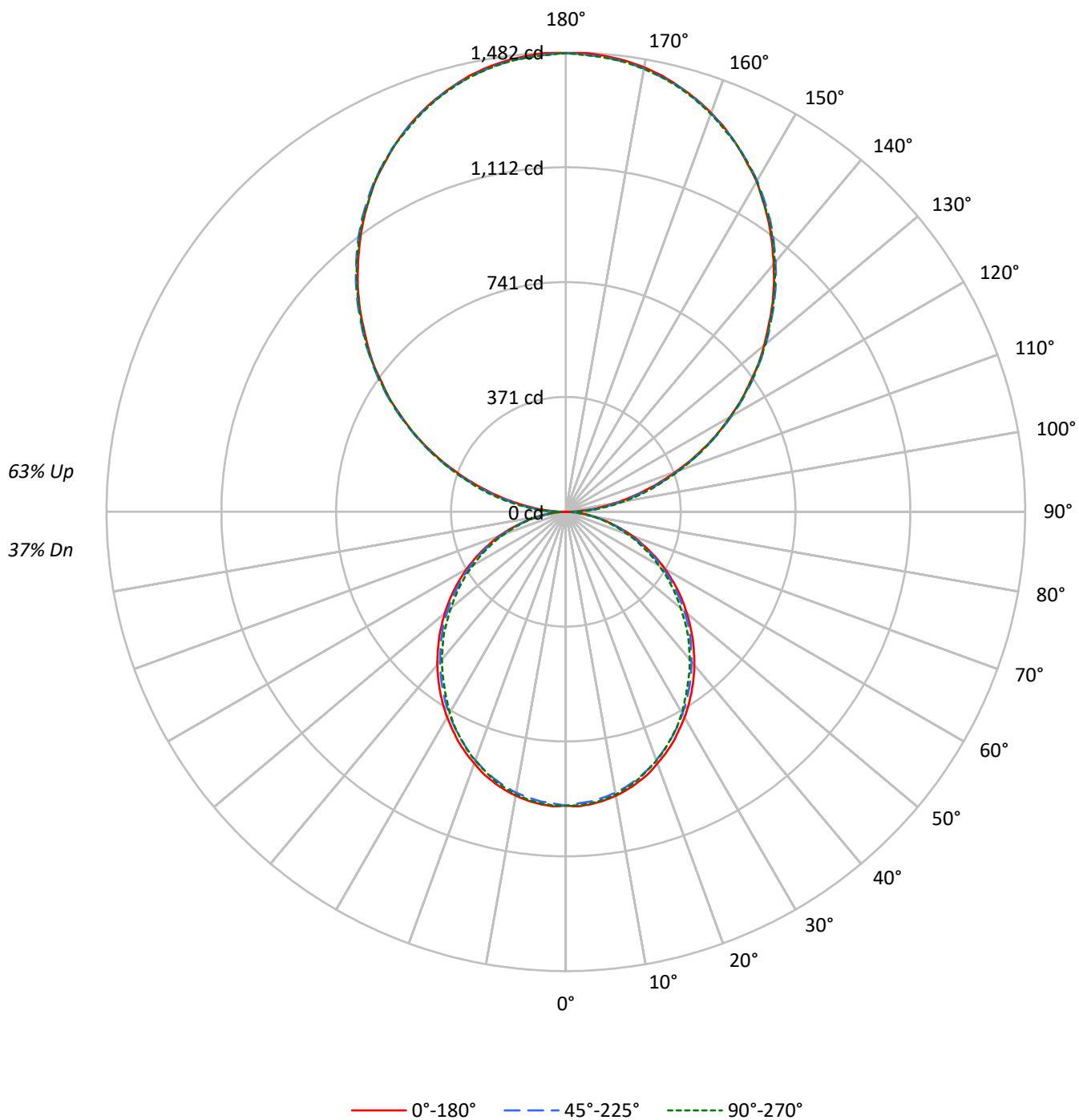
Lumens per Lamp: N/A
Luminaire Lumens: 6599.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (A_{in}): 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°	6075	6075	6075
5°	6075	5934	5946
10°	6025	5799	5780
15°	5947	5636	5585
20°	5839	5447	5362
25°	5725	5241	5122
30°	5586	5027	4870
35°	5438	4802	4587
40°	5285	4564	4335
45°	5119	4332	4068
50°	4937	4070	3757
55°	4757	3781	3470
60°	4542	3475	3137
65°	4285	3122	2793
70°	4025	2716	2396
75°	3584	2235	1937
80°	3054	1670	1425
85°	2361	988	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.4
10°-20°	252.7	3.8
20°-30°	373.1	5.7
30°-40°	435.3	6.6
40°-50°	437.2	6.6
50°-60°	383.8	5.8
60°-70°	285.9	4.3
70°-80°	163.3	2.5
80°-90°	49.4	0.7
90°-100°	98.4	1.5
100°-110°	292.2	4.4
110°-120°	495.6	7.5
120°-130°	652.5	9.9
130°-140°	731.2	11.1
140°-150°	716.7	10.9
150°-160°	602.0	9.1
160°-170°	400.2	6.1
170°-180°	140.0	2.1
0°-30°	715.3	10.8
0°-40°	1150.7	17.4
0°-60°	1971.7	29.9
0°-90°	2470.3	37.4
90°-120°	886.2	13.4
90°-150°	2986.5	45.3
90°-180°	4129.0	62.6
0°-180°	6599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	938	944	944	90
15°	902	900	892	896	896	254
25°	819	815	806	807	805	377
35°	707	704	694	690	684	443
45°	579	576	567	558	556	446
55°	441	439	428	422	416	394
65°	298	296	288	281	278	295
75°	158	157	153	151	148	169
85°	41	42	42	41	40	45
90°	1	10	18	24	28	8
95°	75	77	89	97	99	78
105°	262	268	275	282	286	280
115°	496	501	503	502	501	491
125°	724	731	732	730	729	649
135°	942	949	950	950	945	726
145°	1141	1146	1149	1149	1146	713
155°	1306	1306	1307	1311	1306	601
165°	1420	1417	1418	1423	1416	401
175°	1476	1471	1471	1478	1470	140
180°	1479	1479	1479	1479	1479	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	951.2	949.0	941.5	949.0	948.2
5°	946.7	945.2	937.7	944.5	943.7
7.5°	940.0	938.5	930.2	937.0	936.2
10°	930.2	928.7	920.5	926.5	925.7
12.5°	918.2	915.2	907.7	912.2	912.2
15°	902.5	900.2	892.0	895.7	895.7
17.5°	886.0	882.2	874.0	878.5	874.7
20°	864.2	862.7	853.0	858.2	854.5
22.5°	842.5	839.5	830.4	833.4	831.2
25°	819.2	815.4	805.7	807.2	804.9
27.5°	792.2	789.9	780.2	780.9	778.7
30°	765.9	763.7	752.4	750.9	748.7
32.5°	737.4	733.7	723.9	720.9	716.4
35°	707.4	704.4	693.9	690.2	684.2
37.5°	676.7	672.9	663.2	657.9	654.2
40°	645.2	641.4	630.9	624.1	621.9
42.5°	611.4	608.4	597.9	591.9	588.1
45°	579.1	576.1	567.1	558.1	555.9
47.5°	543.9	544.6	533.4	524.4	519.1
50°	510.1	507.9	498.9	489.1	483.9
52.5°	475.6	474.1	464.4	456.1	450.1
55°	441.1	438.9	428.4	421.6	416.3
57.5°	404.3	403.6	394.6	385.6	383.3
60°	369.8	366.8	358.6	351.1	345.8
62.5°	333.8	331.6	324.8	316.6	312.8
65°	297.8	296.3	288.1	281.3	278.3
67.5°	262.6	259.6	253.6	247.6	246.1
70°	229.6	225.8	219.1	214.6	211.6
72.5°	193.5	191.3	187.5	182.3	179.3
75°	158.3	156.8	153.0	150.8	147.8
77.5°	125.3	124.5	122.3	120.8	118.5
80°	94.5	94.5	93.0	92.3	90.8
82.5°	67.5	66.0	66.0	64.5	64.5
85°	41.3	42.0	42.0	41.3	39.8
87.5°	20.3	20.3	19.5	19.5	18.0
90°	1.2	10.4	18.4	24.2	27.6
92.5°	34.5	40.3	50.7	58.7	61.0
95°	74.8	77.1	88.6	96.7	99.0
97.5°	115.1	116.3	132.4	139.3	140.5
100°	161.2	161.2	176.1	186.5	188.8
102.5°	210.7	216.4	222.2	233.7	237.2
105°	262.5	268.2	275.1	282.1	285.5
107.5°	318.9	324.6	330.4	333.9	333.9
110°	377.6	383.4	386.8	390.3	389.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	439.8	444.4	445.5	443.2
115°	496.2	500.8	503.1	501.9	500.8
117.5°	556.0	557.2	559.5	560.6	556.0
120°	611.3	617.1	618.2	618.2	613.6
122.5°	671.2	672.3	675.8	674.6	671.2
125°	724.1	731.0	732.2	729.9	728.7
127.5°	782.8	786.3	787.4	786.3	784.0
130°	834.6	840.4	842.7	841.6	839.2
132.5°	886.4	896.8	895.7	894.5	891.1
135°	941.7	948.6	949.8	949.8	945.2
137.5°	993.5	1000.4	1002.7	1003.9	998.1
140°	1043.0	1048.8	1052.2	1054.5	1048.8
142.5°	1092.5	1097.1	1101.7	1102.9	1097.1
145°	1140.9	1145.5	1148.9	1148.9	1145.5
147.5°	1185.8	1189.2	1191.5	1195.0	1185.8
150°	1230.7	1229.5	1234.1	1234.1	1231.8
152.5°	1267.5	1269.8	1271.0	1274.4	1269.8
155°	1305.5	1305.5	1306.6	1311.3	1305.5
157.5°	1340.0	1337.7	1338.9	1343.5	1335.4
160°	1370.0	1366.5	1367.7	1372.3	1366.5
162.5°	1396.4	1394.1	1394.1	1399.9	1393.0
165°	1419.5	1417.2	1418.3	1422.9	1416.0
167.5°	1440.2	1435.6	1435.6	1442.5	1435.6
170°	1456.3	1451.7	1451.7	1458.6	1450.6
172.5°	1467.8	1463.2	1463.2	1470.1	1463.2
175°	1475.9	1471.3	1471.3	1478.2	1470.1
177.5°	1481.6	1477.0	1475.9	1482.8	1474.7
180°	1479.3	1479.3	1479.3	1479.3	1479.3

(END OF REPORT)