

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: P1028018

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028018
REPORT IS A COMBINATION OF REPORTS P1002182 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-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

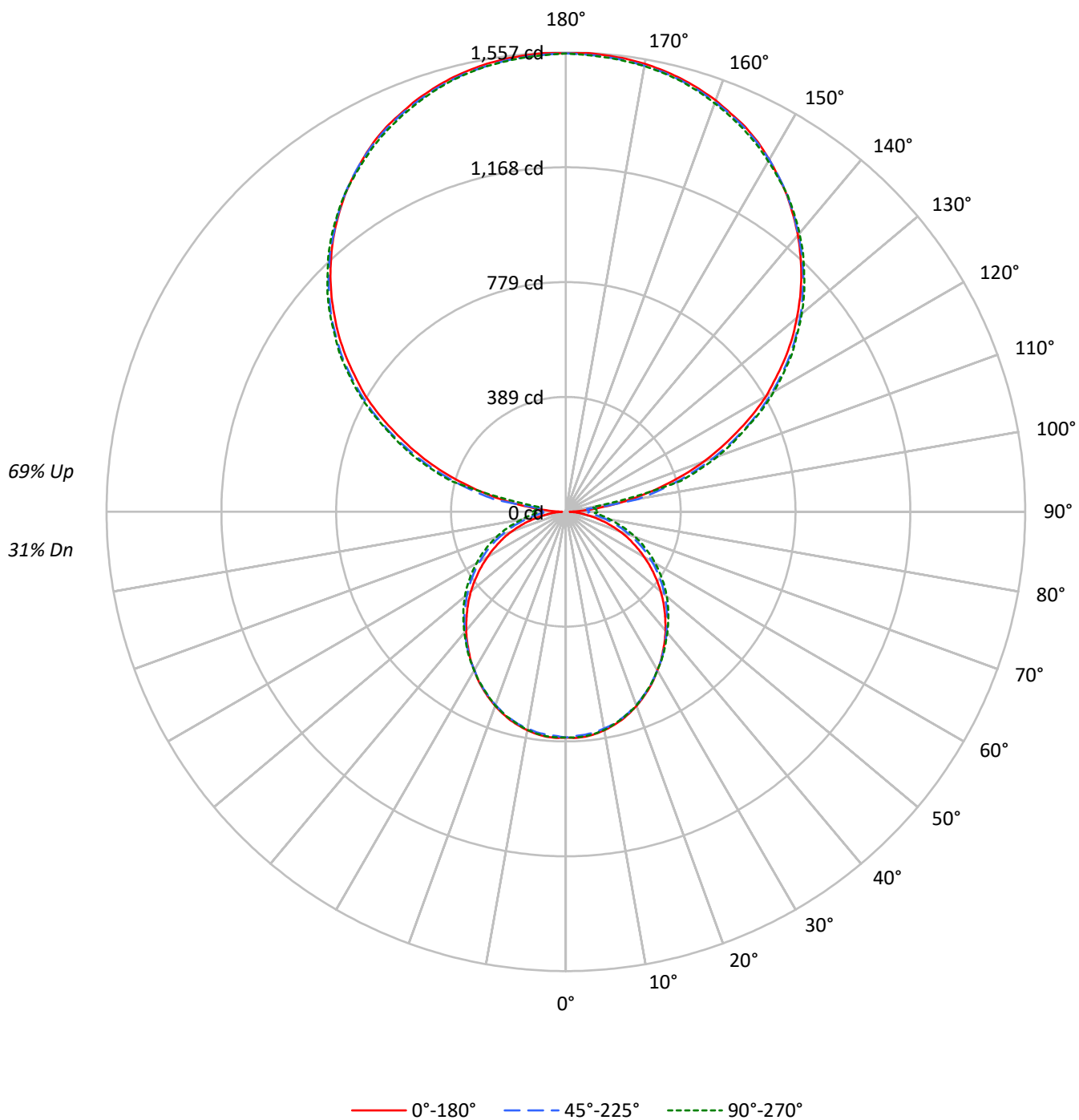
Lumens per Lamp: N/A
Luminaire Lumens: 7144.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1028018

CATALOG NUMBER: S125DIP-B610D1270UB27-4F0-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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	89	85	81	83	80	76	73	63	61	59	48	46	45	34	33	32
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	29	28	26
3	77	68	60	55	69	61	55	50	48	44	40	37	34	31	26	24	22
4	70	60	52	46	63	54	47	42	43	38	34	32	29	26	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	18	16
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	16	14
7	55	43	35	29	49	39	32	27	31	26	22	24	20	17	17	15	13
8	51	38	31	26	45	35	28	24	28	23	19	22	18	15	16	13	11
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	14	12	10
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

TEST NUMBER: P1028018

CATALOG NUMBER: S125DIP-B610D1270UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.0
10°-20°	205.5	2.9
20°-30°	305.6	4.3
30°-40°	361.9	5.1
40°-50°	374.2	5.2
50°-60°	344.7	4.8
60°-70°	278.7	3.9
70°-80°	186.5	2.6
80°-90°	98.7	1.4
90°-100°	107.0	1.5
100°-110°	390.6	5.5
110°-120°	658.1	9.2
120°-130°	825.5	11.6
130°-140°	878.2	12.3
140°-150°	819.3	11.5
150°-160°	661.7	9.3
160°-170°	427.9	6.0
170°-180°	147.6	2.1
0°-30°	583.5	8.2
0°-40°	945.4	13.2
0°-60°	1664.3	23.3
0°-90°	2228.1	31.2
90°-120°	1155.8	16.2
90°-150°	3678.9	51.5
90°-180°	4916.0	68.8
0°-180°	7144.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	13	46	80	103	112	12
95°	75	92	73	96	101	88
105°	345	362	384	400	404	366
115°	640	651	672	681	678	635
125°	907	914	929	937	937	810
135°	1129	1135	1138	1145	1142	870
145°	1308	1309	1309	1314	1310	818
155°	1439	1432	1435	1438	1429	663
165°	1519	1512	1513	1520	1511	429
175°	1553	1546	1548	1557	1546	148
180°	1553	1553	1553	1553	1553	

TEST NUMBER: P1028018

CATALOG NUMBER: S125DIP-B610D1270UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	13.2	46.4	79.9	103.0	111.6
92.5°	32.4	43.8	76.9	99.2	105.6
95°	75.4	91.5	73.2	95.5	100.7
97.5°	132.2	157.1	72.5	90.5	97.0
100°	200.6	219.8	248.4	92.6	92.5
102.5°	270.0	289.0	314.5	331.8	239.5
105°	345.3	362.0	384.5	399.5	403.5
107.5°	422.8	433.3	457.5	473.6	473.5
110°	498.1	507.1	530.5	541.2	547.6

TEST NUMBER: P1028018

CATALOG NUMBER: S125DIP-B610D1270UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	569.5	579.7	601.1	610.0	612.9
115°	640.1	651.2	671.8	680.7	678.3
117.5°	714.3	718.0	741.4	747.2	750.2
120°	783.4	784.4	805.2	815.6	814.3
122.5°	843.6	850.2	867.8	877.5	875.1
125°	906.9	914.3	929.3	936.7	936.9
127.5°	967.3	972.2	983.9	992.8	988.1
130°	1022.5	1027.5	1039.2	1046.2	1044.2
132.5°	1077.0	1083.9	1088.0	1098.5	1095.7
135°	1128.8	1135.0	1137.9	1145.4	1142.2
137.5°	1177.2	1183.4	1184.1	1193.1	1190.3
140°	1223.7	1226.0	1225.6	1236.2	1232.3
142.5°	1266.3	1266.7	1269.0	1275.8	1271.9
145°	1307.8	1309.3	1309.3	1314.2	1310.3
147.5°	1343.8	1343.8	1345.0	1347.6	1341.1
150°	1378.4	1376.1	1378.4	1380.7	1372.3
152.5°	1411.8	1406.0	1408.3	1410.6	1402.5
155°	1439.4	1432.5	1434.8	1438.2	1429.0
157.5°	1461.3	1457.8	1457.8	1461.3	1452.1
160°	1484.3	1477.4	1478.5	1483.2	1473.9
162.5°	1502.7	1495.8	1497.0	1503.9	1493.5
165°	1518.8	1511.9	1513.1	1520.0	1510.8
167.5°	1531.5	1524.6	1525.8	1533.8	1523.5
170°	1541.9	1533.8	1535.0	1544.2	1533.8
172.5°	1548.8	1540.7	1543.0	1551.1	1540.7
175°	1553.4	1546.5	1547.6	1556.8	1546.5
177.5°	1556.8	1549.9	1551.1	1559.2	1549.9
180°	1553.4	1553.4	1553.4	1553.4	1553.4

(END OF REPORT)