

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: P1028045

Luminaire Tested: S125DIP-B610D1270UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028045
REPORT IS A COMBINATION OF REPORTS P1002224 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1270UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

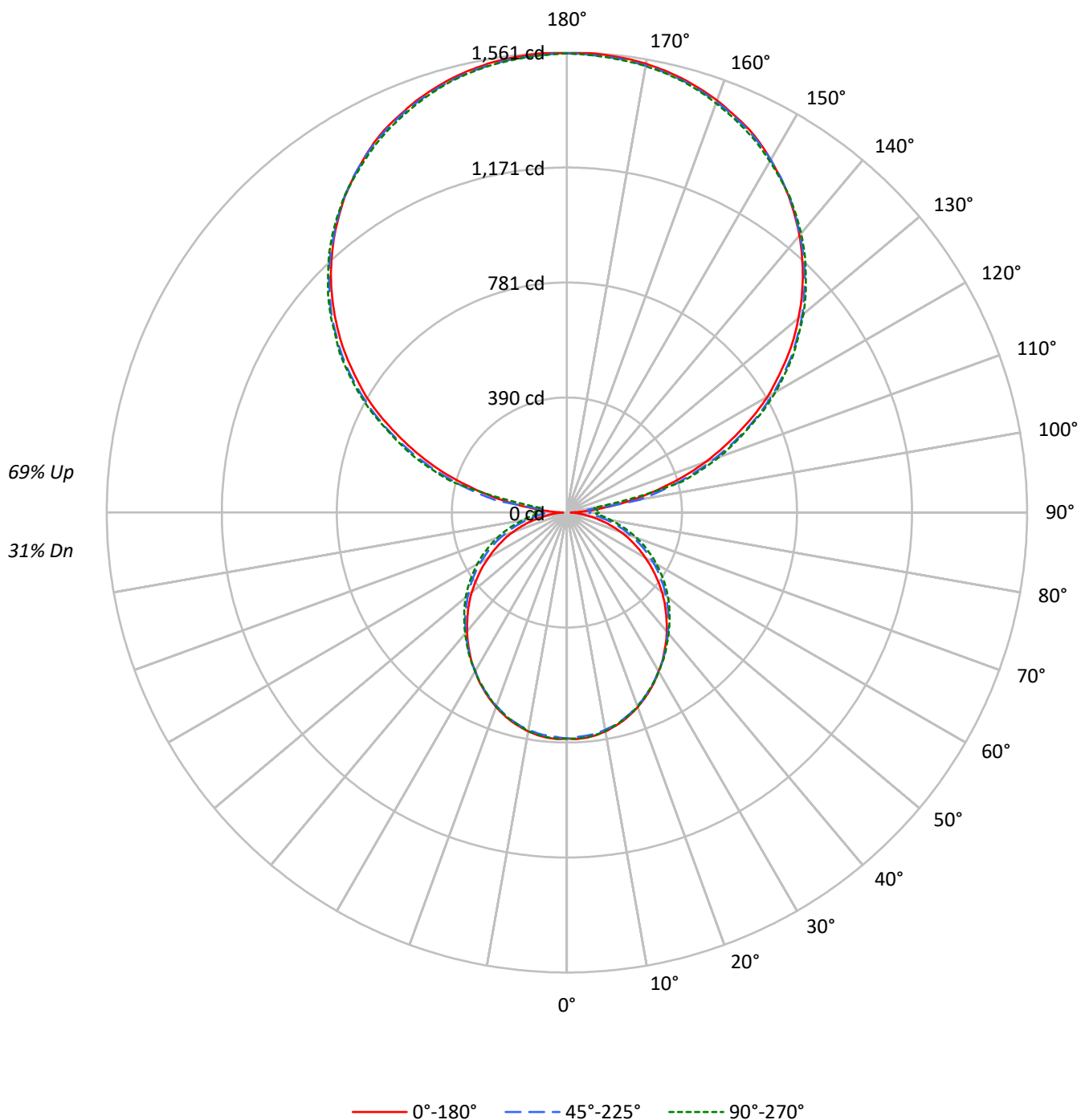
Lumens per Lamp: N/A
Luminaire Lumens: 7165.1 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1028045

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1028045

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-D

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
RCR																	
0	103	103	103	103	92	92	92	92	73	73	73		55	55	55		39
1	93	89	85	81	83	80	76	73	63	61	59		48	46	45		34
2	85	77	71	66	76	69	64	60	55	51	48		42	39	37		29
3	77	68	60	55	69	61	55	50	48	44	40		37	34	31		26
4	70	60	52	46	63	54	47	42	43	38	34		32	29	26		23
5	64	53	45	39	58	48	41	36	38	33	29		29	26	23		21
6	59	47	39	34	53	43	36	31	34	29	25		26	23	20		19
7	55	43	35	29	49	39	32	27	31	26	22		24	20	17		17
8	51	38	31	26	45	35	28	24	28	23	19		22	18	15		16
9	47	35	28	23	42	32	25	21	26	21	17		20	16	14		14
10	44	32	25	20	39	29	23	19	23	19	15		18	15	12		13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4916	4916	4916
5°	4924	4813	4825
10°	4887	4715	4702
15°	4828	4601	4550
20°	4747	4463	4399
25°	4653	4316	4217
30°	4537	4156	4051
35°	4429	4008	3898
40°	4320	3853	3744
45°	4196	3718	3606
50°	4078	3572	3482
55°	3934	3432	3336
60°	3779	3274	3187
65°	3616	3106	3020
70°	3429	2882	2846
75°	3134	2659	2633
80°	2747	2391	2397
85°	2367	2175	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4196 cd/sqm

TEST NUMBER: P1028045

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.0
10°-20°	206.1	2.9
20°-30°	306.5	4.3
30°-40°	363.0	5.1
40°-50°	375.3	5.2
50°-60°	345.7	4.8
60°-70°	279.5	3.9
70°-80°	187.0	2.6
80°-90°	99.0	1.4
90°-100°	107.3	1.5
100°-110°	391.7	5.5
110°-120°	660.0	9.2
120°-130°	827.9	11.6
130°-140°	880.8	12.3
140°-150°	821.7	11.5
150°-160°	663.6	9.3
160°-170°	429.2	6.0
170°-180°	148.0	2.1
0°-30°	585.2	8.2
0°-40°	948.2	13.2
0°-60°	1669.2	23.3
0°-90°	2234.7	31.2
90°-120°	1159.1	16.2
90°-150°	3689.6	51.5
90°-180°	4930.0	68.8
0°-180°	7165.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	766	760	767	766	73
15°	733	734	728	733	730	206
25°	666	668	664	666	663	307
35°	576	582	579	582	582	361
45°	475	483	487	492	493	366
55°	365	377	389	397	400	326
65°	251	269	287	298	301	249
75°	138	158	182	197	201	147
85°	41	66	92	109	115	43
90°	13	46	80	103	112	12
95°	76	92	73	96	101	88
105°	346	363	386	401	405	367
115°	642	653	674	683	680	636
125°	910	917	932	939	940	812
135°	1132	1138	1141	1149	1146	873
145°	1312	1313	1313	1318	1314	820
155°	1444	1437	1439	1442	1433	665
165°	1523	1516	1518	1524	1515	430
175°	1558	1551	1552	1561	1551	148
180°	1558	1558	1558	1558	1558	

TEST NUMBER: P1028045

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.3	767.3	767.3	767.3	767.3
2.5°	769.6	768.1	762.8	768.1	767.3
5°	767.3	765.8	760.5	766.6	765.8
7.5°	762.0	761.3	756.0	761.3	760.5
10°	754.5	754.5	748.5	753.8	753.0
12.5°	744.0	744.7	740.2	744.0	741.7
15°	732.7	733.5	728.2	732.7	729.7
17.5°	718.4	719.9	714.7	718.4	716.2
20°	702.6	704.1	698.9	701.1	701.1
22.5°	684.6	687.6	681.6	684.6	682.3
25°	665.8	668.0	663.5	666.5	662.7
27.5°	645.4	648.5	643.2	645.4	643.9
30°	622.1	626.6	622.1	623.6	622.9
32.5°	601.1	604.8	601.8	603.3	602.6
35°	576.2	581.5	579.2	581.5	581.5
37.5°	552.2	556.7	555.9	558.9	558.2
40°	527.3	533.4	532.6	535.6	537.1
42.5°	500.3	508.5	510.8	514.6	514.6
45°	474.7	483.0	486.7	492.0	492.7
47.5°	448.4	455.9	461.9	469.4	470.9
50°	421.3	429.5	437.8	446.1	448.4
52.5°	392.7	403.2	413.7	422.8	424.3
55°	364.8	376.9	388.9	397.2	400.2
57.5°	336.3	350.6	364.1	373.1	375.4
60°	307.7	322.7	337.8	349.1	351.3
62.5°	279.8	294.9	311.4	324.2	327.2
65°	251.3	268.6	286.6	297.9	300.9
67.5°	224.9	241.5	259.5	273.1	276.8
70°	195.6	212.9	232.5	246.7	251.3
72.5°	167.0	185.1	206.9	222.7	225.7
75°	138.4	158.0	182.0	197.1	200.9
77.5°	110.6	133.2	155.7	172.3	175.3
80°	85.0	107.6	133.2	149.7	152.7
82.5°	61.7	85.8	112.1	127.9	133.9
85°	41.4	66.2	92.5	109.1	115.1
87.5°	26.3	50.4	76.0	93.3	98.5
90°	13.2	46.5	80.2	103.3	112.0
92.5°	32.4	43.8	77.2	99.5	105.9
95°	75.6	91.7	73.4	95.8	101.0
97.5°	132.6	157.6	72.7	90.8	97.3
100°	201.2	220.4	249.1	92.8	92.8
102.5°	270.8	289.7	315.3	332.8	240.2
105°	346.3	363.0	385.6	400.6	404.7
107.5°	424.1	434.6	458.8	474.9	474.8
110°	499.6	508.6	532.0	542.7	549.2

TEST NUMBER: P1028045

CATALOG NUMBER: S125DIP-B610D1270UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.2	581.4	602.8	611.8	614.8
115°	642.0	653.1	673.7	682.7	680.3
117.5°	716.4	720.1	743.5	749.4	752.3
120°	785.7	786.7	807.5	818.0	816.7
122.5°	846.1	852.6	870.3	880.0	877.7
125°	909.6	917.0	932.0	939.4	939.7
127.5°	970.1	975.1	986.7	995.7	991.0
130°	1025.5	1030.5	1042.2	1049.3	1047.2
132.5°	1080.2	1087.1	1091.1	1101.7	1099.0
135°	1132.1	1138.4	1141.3	1148.7	1145.6
137.5°	1180.6	1186.9	1187.6	1196.6	1193.8
140°	1227.3	1229.6	1229.1	1239.8	1235.8
142.5°	1270.0	1270.4	1272.7	1279.5	1275.6
145°	1311.6	1313.1	1313.1	1318.1	1314.1
147.5°	1347.8	1347.8	1348.9	1351.6	1345.0
150°	1382.4	1380.1	1382.4	1384.7	1376.3
152.5°	1415.9	1410.1	1412.4	1414.7	1406.7
155°	1443.6	1436.7	1439.0	1442.5	1433.2
157.5°	1465.6	1462.1	1462.1	1465.6	1456.3
160°	1488.7	1481.7	1482.9	1487.5	1478.3
162.5°	1507.1	1500.2	1501.4	1508.3	1497.9
165°	1523.3	1516.4	1517.5	1524.5	1515.2
167.5°	1536.0	1529.1	1530.2	1538.3	1527.9
170°	1546.4	1538.3	1539.5	1548.7	1538.3
172.5°	1553.3	1545.2	1547.6	1555.6	1545.2
175°	1557.9	1551.0	1552.2	1561.4	1551.0
177.5°	1561.4	1554.5	1555.6	1563.7	1554.5
180°	1557.9	1557.9	1557.9	1557.9	1557.9

(END OF REPORT)