

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: P1028046

Luminaire Tested: S125DIP-B610D1270UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028046
REPORT IS A COMBINATION OF REPORTS P1002225 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-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

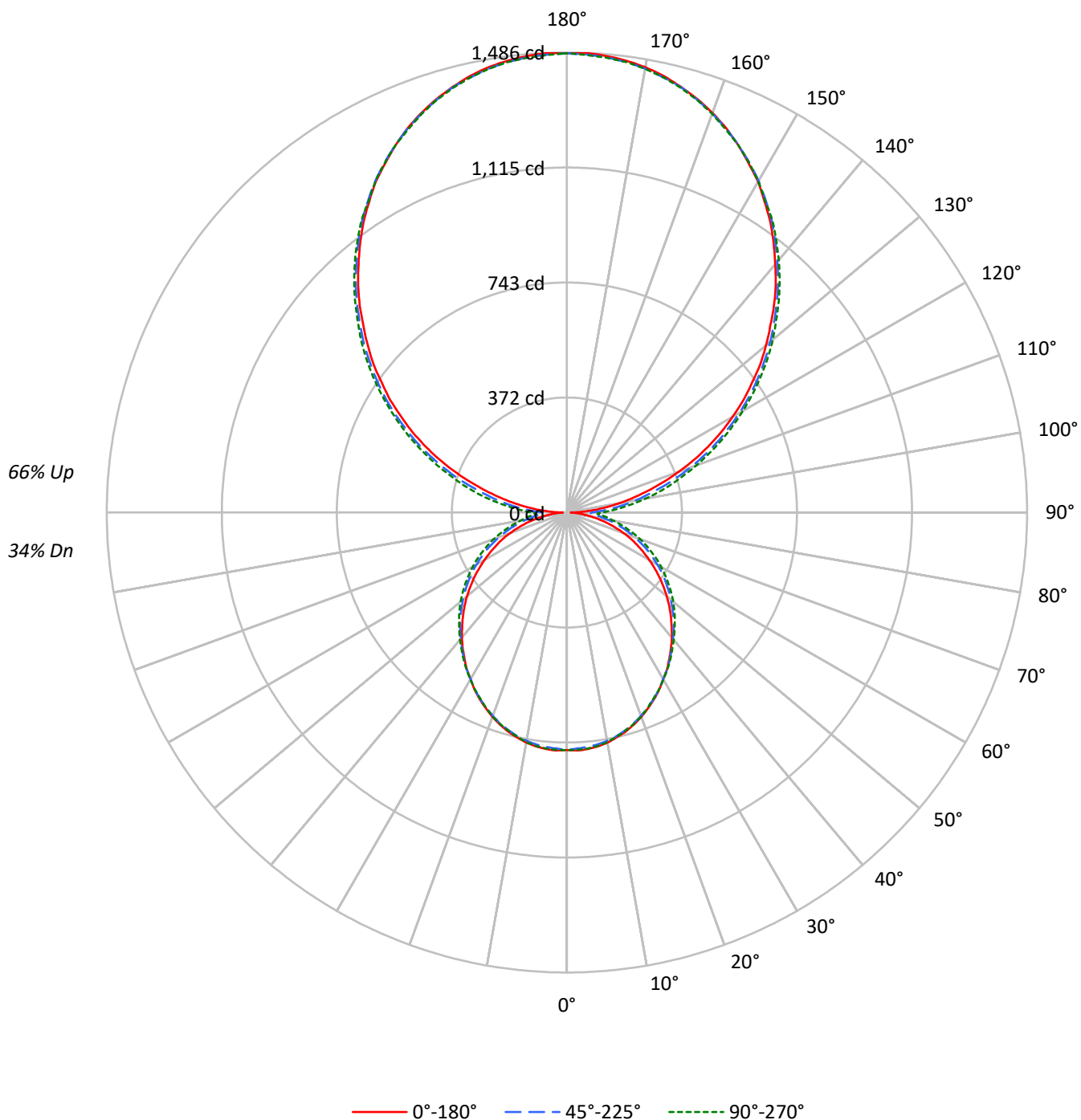
Lumens per Lamp: N/A
Luminaire Lumens: 6520.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	89	85	82	84	81	77	74	65	62	60	50	48	47	36	35	34
2	85	78	71	66	76	70	65	60	56	52	49	43	41	39	31	30	28
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	63	54	48	42	44	39	35	34	30	28	25	22	20
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	60	48	40	34	54	43	36	31	35	30	26	27	23	21	20	17	15
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.1
10°-20°	206.1	3.2
20°-30°	306.5	4.7
30°-40°	363.0	5.6
40°-50°	375.3	5.8
50°-60°	345.7	5.3
60°-70°	279.5	4.3
70°-80°	187.0	2.9
80°-90°	99.0	1.5
90°-100°	153.1	2.3
100°-110°	333.2	5.1
110°-120°	523.9	8.0
120°-130°	669.6	10.3
130°-140°	739.9	11.3
140°-150°	720.1	11.0
150°-160°	603.7	9.3
160°-170°	401.3	6.2
170°-180°	140.4	2.2
0°-30°	585.2	9.0
0°-40°	948.2	14.5
0°-60°	1669.2	25.6
0°-90°	2234.7	34.3
90°-120°	1010.2	15.5
90°-150°	3139.8	48.2
90°-180°	4285.0	65.7
0°-180°	6520.0	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	13
95°	85	107	144	168	176	86
105°	270	288	317	339	348	288
115°	502	512	534	546	550	497
125°	729	736	752	761	764	653
135°	946	952	958	968	968	729
145°	1145	1149	1152	1156	1156	716
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

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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	103.2	112.0
92.5°	45.1	72.7	109.5	134.1	141.7
95°	84.8	106.7	143.8	168.5	176.0
97.5°	124.5	143.7	184.7	207.4	213.9
100°	169.9	185.7	224.8	250.9	257.9
102.5°	218.8	238.9	267.9	294.6	302.5
105°	270.0	287.8	317.3	339.3	348.0
107.5°	325.8	342.1	369.8	388.2	392.7
110°	384.0	398.8	423.3	441.0	445.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	444.0	453.0	478.0	492.7	495.7
115°	502.1	512.0	533.8	546.3	549.6
117.5°	561.5	566.3	587.4	601.4	602.1
120°	616.9	624.9	643.3	656.1	656.0
122.5°	676.1	678.1	698.0	708.9	710.0
125°	729.2	735.5	751.6	761.3	763.9
127.5°	787.4	790.1	804.0	814.2	816.4
130°	839.4	844.3	857.1	866.6	868.0
132.5°	890.5	900.9	907.3	916.7	916.2
135°	945.9	952.2	958.5	968.3	967.5
137.5°	997.9	1004.1	1009.4	1019.6	1016.8
140°	1046.8	1052.6	1056.8	1067.4	1064.6
142.5°	1096.5	1100.3	1104.9	1112.9	1110.1
145°	1145.0	1148.8	1152.3	1156.1	1155.6
147.5°	1189.2	1192.7	1195.0	1199.9	1192.2
150°	1234.2	1233.1	1237.7	1237.7	1236.2
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)