

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: P1027455

Luminaire Tested: S125DIP-B1090D610UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027455
REPORT IS A COMBINATION OF REPORTS P1001430 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

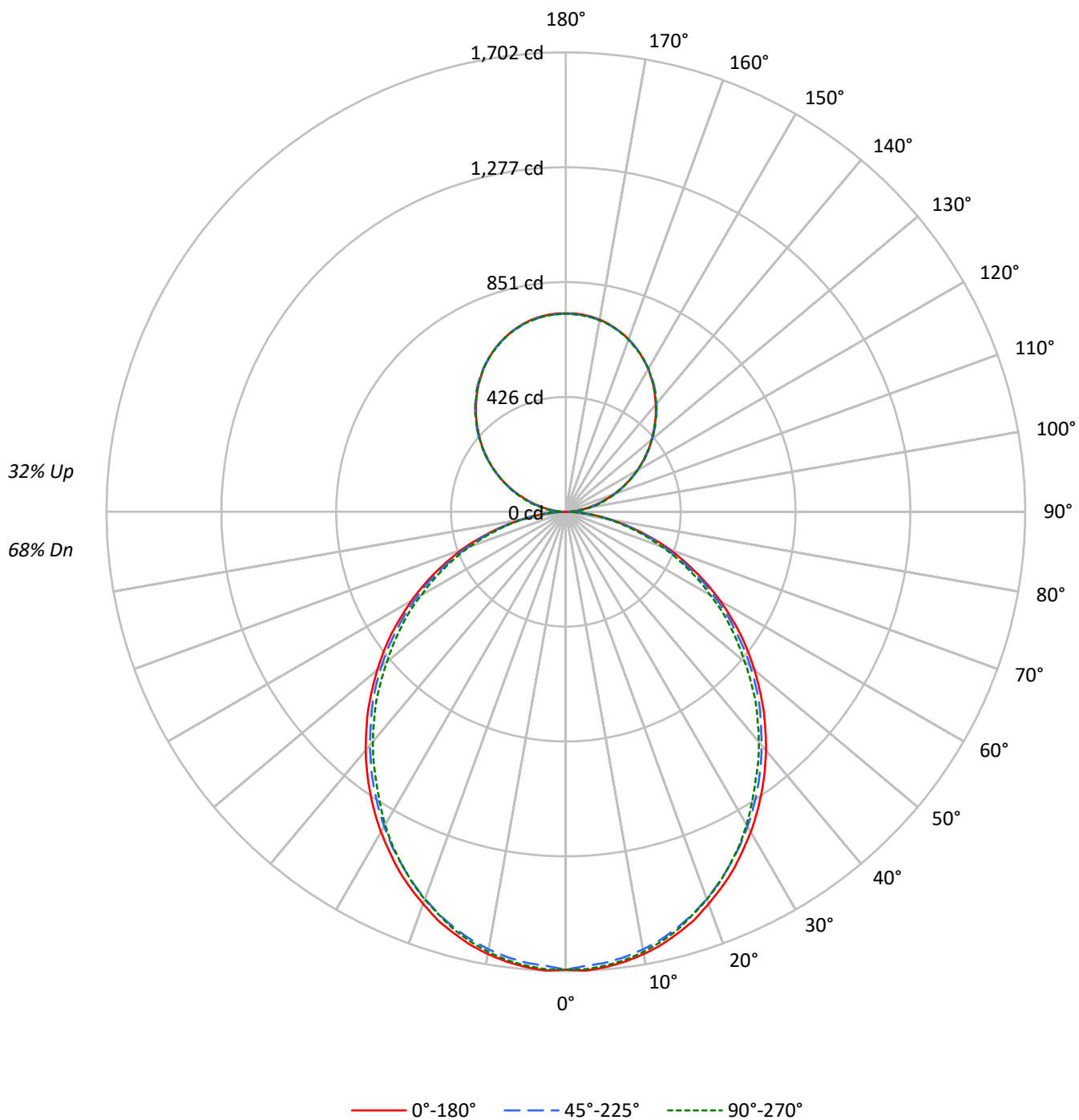
Lumens per Lamp: N/A
Luminaire Lumens: 6466.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73
1	102	97	93	90	96	92	88	85	82	79	77	73	71	69	64	63	61
2	93	85	79	73	87	80	75	70	72	67	64	64	61	58	57	54	52
3	85	75	67	61	79	71	64	58	63	58	53	57	52	49	50	47	44
4	77	66	58	52	73	63	55	50	56	50	46	50	46	42	45	41	38
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33
6	66	53	45	39	62	51	43	37	46	39	34	41	36	32	37	32	29
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26
8	56	44	36	30	53	42	34	29	38	32	27	34	29	25	31	26	23
9	53	40	32	27	50	38	31	26	35	29	24	32	26	23	28	24	21
10	49	37	29	24	47	35	28	24	32	26	22	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10868	10868	10868
5°	10869	10616	10636
10°	10779	10372	10340
15°	10637	10081	9991
20°	10446	9744	9591
25°	10241	9376	9163
30°	9993	8992	8711
35°	9728	8590	8205
40°	9454	8165	7755
45°	9158	7751	7278
50°	8833	7281	6721
55°	8511	6763	6209
60°	8126	6217	5613
65°	7666	5584	4997
70°	7199	4858	4285
75°	6412	4000	3466
80°	5465	2988	2549
85°	4220	1768	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	2.5
10°-20°	452.1	7.0
20°-30°	667.5	10.3
30°-40°	778.8	12.0
40°-50°	782.2	12.1
50°-60°	686.6	10.6
60°-70°	511.4	7.9
70°-80°	292.1	4.5
80°-90°	85.5	1.3
90°-100°	48.8	0.8
100°-110°	145.1	2.2
110°-120°	246.1	3.8
120°-130°	323.9	5.0
130°-140°	363.0	5.6
140°-150°	355.8	5.5
150°-160°	298.9	4.6
160°-170°	198.7	3.1
170°-180°	69.5	1.1
0°-30°	1279.7	19.8
0°-40°	2058.4	31.8
0°-60°	3527.2	54.6
0°-90°	4416.1	68.3
90°-120°	440.0	6.8
90°-150°	1482.8	22.9
90°-180°	2050.0	31.7
0°-180°	6466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	81
90°	1	5	9	12	14	7
95°	37	38	44	48	49	39
105°	130	133	137	140	142	139
115°	246	249	250	249	249	244
125°	360	363	364	362	362	322
135°	468	471	472	472	469	360
145°	566	569	570	570	569	354
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	0.6	5.1	9.1	12.0	13.7
92.5°	17.1	20.0	25.1	29.2	30.3
95°	37.2	38.3	44.0	48.0	49.2
97.5°	57.2	57.7	65.7	69.2	69.7
100°	80.0	80.0	87.5	92.6	93.7
102.5°	104.6	107.5	110.3	116.0	117.7
105°	130.3	133.2	136.6	140.0	141.8
107.5°	158.3	161.2	164.0	165.8	165.8
110°	187.5	190.3	192.0	193.8	193.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	218.3	220.6	221.2	220.1
115°	246.3	248.6	249.8	249.2	248.6
117.5°	276.1	276.6	277.8	278.4	276.1
120°	303.5	306.4	306.9	306.9	304.6
122.5°	333.2	333.8	335.5	334.9	333.2
125°	359.5	363.0	363.5	362.4	361.8
127.5°	388.7	390.4	391.0	390.4	389.2
130°	414.4	417.2	418.4	417.8	416.7
132.5°	440.1	445.3	444.7	444.1	442.4
135°	467.5	471.0	471.5	471.5	469.3
137.5°	493.3	496.7	497.8	498.4	495.6
140°	517.8	520.7	522.4	523.6	520.7
142.5°	542.4	544.7	547.0	547.6	544.7
145°	566.4	568.7	570.4	570.4	568.7
147.5°	588.7	590.4	591.6	593.3	588.7
150°	611.0	610.4	612.7	612.7	611.6
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)