

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: P1027501

Luminaire Tested: S125DIP-B1090D850UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027501
REPORT IS A COMBINATION OF REPORTS P1001491 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB30-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

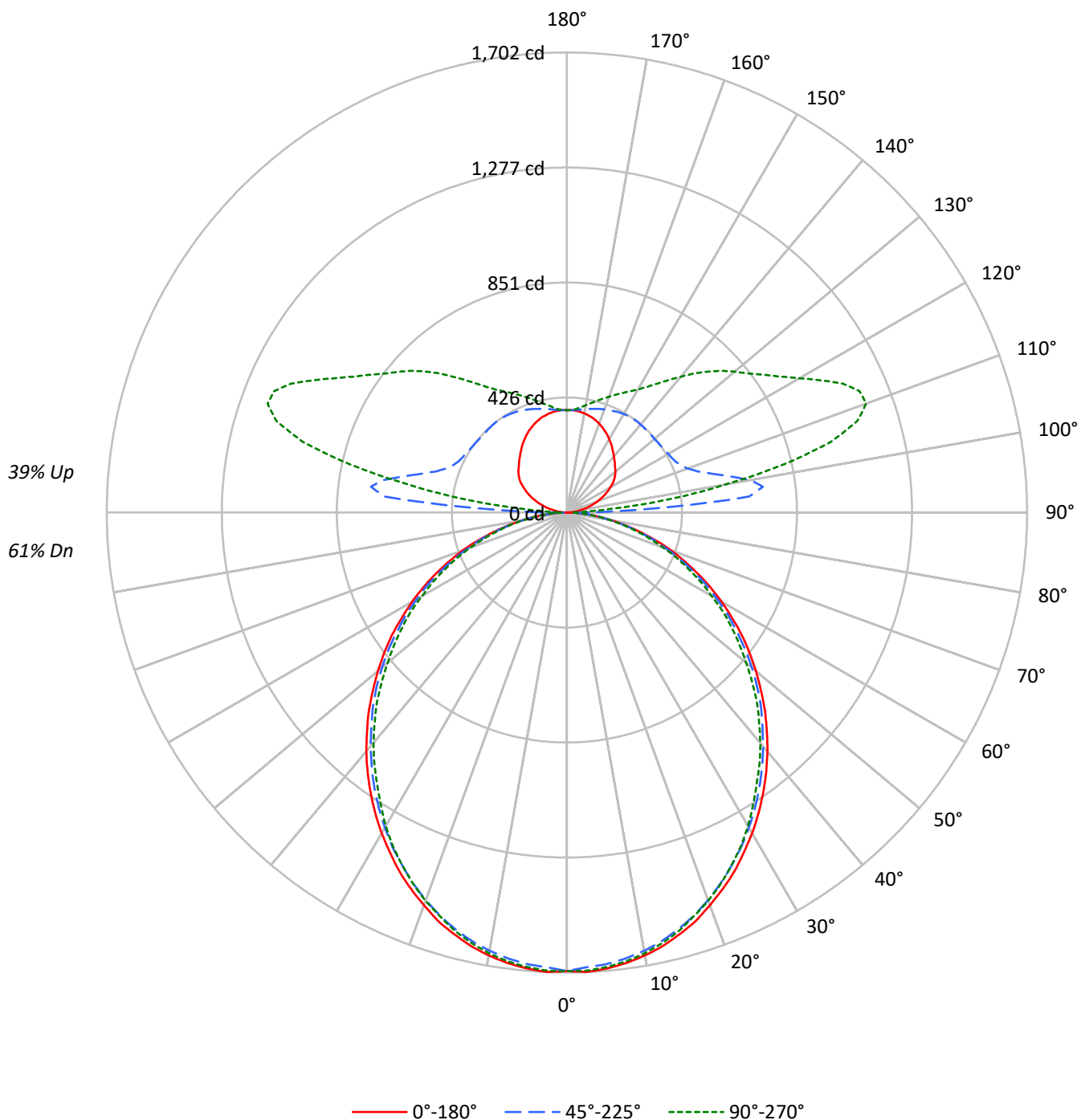
Lumens per Lamp: N/A
Luminaire Lumens: 7266.8 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.9
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56
2	91	84	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	41	37	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	37	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

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	2.2
10°-20°	452.1	6.2
20°-30°	667.5	9.2
30°-40°	778.8	10.7
40°-50°	782.2	10.8
50°-60°	686.6	9.4
60°-70°	511.4	7.0
70°-80°	292.1	4.0
80°-90°	85.8	1.2
90°-100°	285.2	3.9
100°-110°	592.4	8.2
110°-120°	553.3	7.6
120°-130°	447.7	6.2
130°-140°	359.7	5.0
140°-150°	271.5	3.7
150°-160°	191.2	2.6
160°-170°	112.7	1.6
170°-180°	36.6	0.5
0°-30°	1279.7	17.6
0°-40°	2058.4	28.3
0°-60°	3527.2	48.5
0°-90°	4416.5	60.8
90°-120°	1430.9	19.7
90°-150°	2509.8	34.5
90°-180°	2850.0	39.2
0°-180°	7266.8	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	7	12	16	18	7
95°	25	74	676	307	179	26
105°	86	121	554	1090	1012	91
115°	154	186	444	958	1127	152
125°	214	250	426	762	888	190
135°	250	301	423	639	738	194
145°	292	334	424	529	582	183
155°	333	358	414	468	488	153
165°	363	373	397	421	428	102
175°	378	378	381	386	384	36
180°	379	379	379	379	379	

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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°	0.8	6.8	12.2	16.0	17.6
92.5°	11.5	62.6	304.6	81.4	56.5
95°	25.2	74.4	676.5	307.0	179.4
97.5°	38.9	80.6	730.7	554.3	393.2
100°	53.4	92.4	689.5	783.4	595.6
102.5°	69.5	105.8	616.9	977.4	821.6
105°	86.3	120.6	553.6	1089.9	1011.7
107.5°	102.3	136.2	506.2	1121.6	1126.2
110°	119.9	152.7	474.9	1091.4	1178.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.4	169.1	456.6	1028.5	1172.0
115°	154.2	186.0	444.4	957.8	1127.0
117.5°	169.5	203.1	437.5	893.7	1059.0
120°	184.8	219.6	432.9	839.9	993.4
122.5°	200.8	235.6	429.1	796.8	935.3
125°	213.8	250.4	426.1	762.0	888.0
127.5°	224.5	265.0	424.5	732.2	844.5
130°	234.4	278.7	423.0	702.1	810.1
132.5°	242.0	290.9	423.0	669.6	775.7
135°	250.4	301.2	423.0	638.7	737.6
137.5°	261.1	310.8	423.8	606.2	697.9
140°	270.3	318.8	424.5	576.4	655.9
142.5°	281.0	326.4	425.3	550.8	616.9
145°	291.7	334.0	424.5	528.8	581.8
147.5°	303.1	340.9	423.0	509.6	550.5
150°	313.0	347.0	420.7	494.0	525.3
152.5°	323.7	353.2	417.7	480.6	505.5
155°	332.9	358.1	413.8	467.7	487.9
157.5°	341.3	363.1	410.0	455.4	471.9
160°	349.7	366.8	406.2	443.2	455.8
162.5°	356.6	370.7	401.6	432.2	441.3
165°	363.4	373.4	397.0	421.1	427.6
167.5°	368.0	374.9	392.5	410.8	414.6
170°	372.6	376.8	388.6	400.8	403.1
172.5°	375.7	377.5	384.1	392.8	392.5
175°	377.9	377.9	381.0	385.6	384.1
177.5°	379.5	377.9	378.7	381.0	378.7
180°	378.7	378.7	378.7	378.7	378.7

(END OF REPORT)