

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: P1027321

Luminaire Tested: S125DIP-B1090D1090UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027321
REPORT IS A COMBINATION OF REPORTS P1001251 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB30-4F0-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

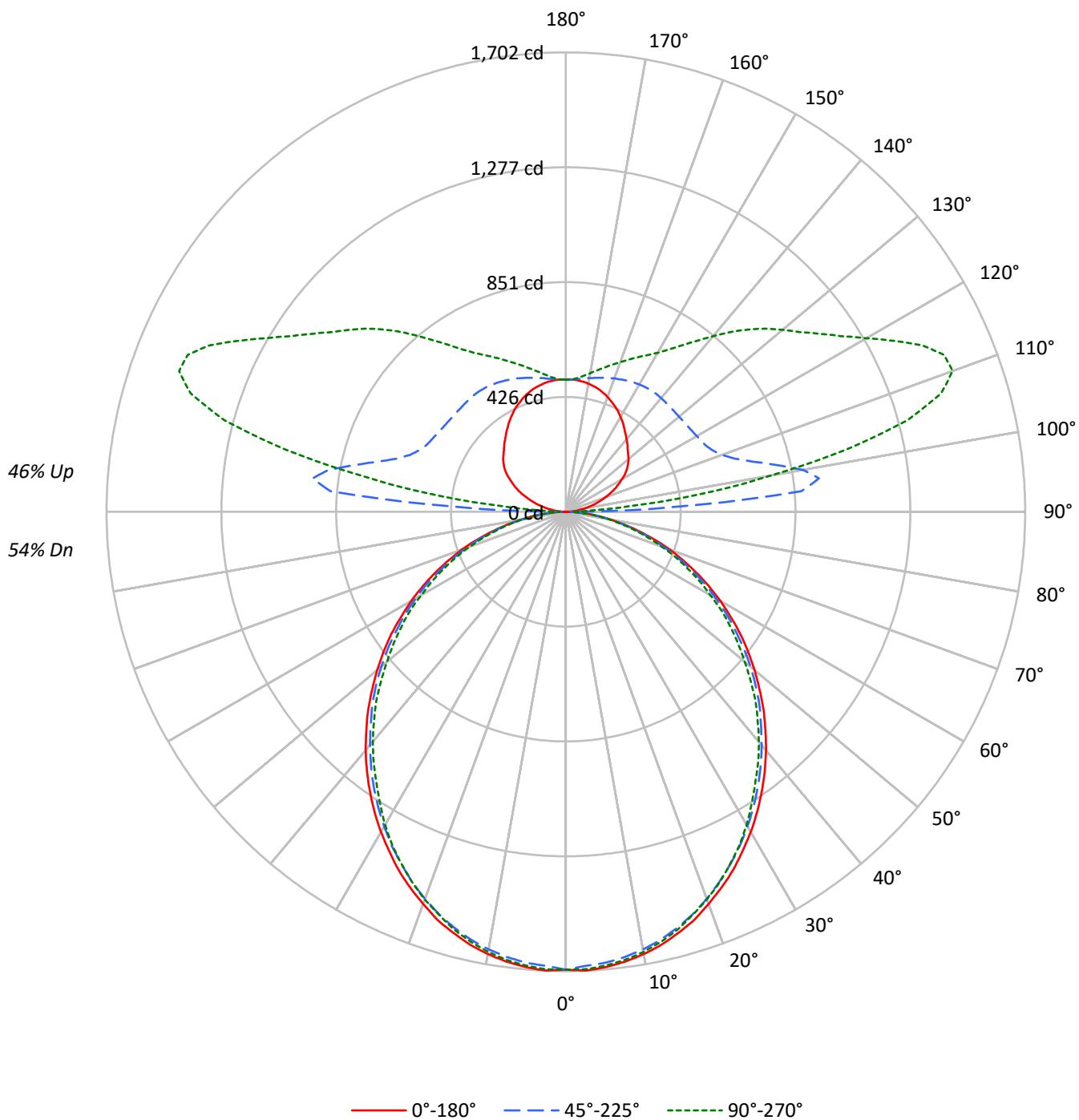
Lumens per Lamp: N/A
Luminaire Lumens: 8106.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		72	72	72		60
1	99	94	90	87	91	88	84	81	75	73	70		64	62	60		53
2	90	82	76	71	83	77	71	67	66	62	58		56	53	50		47
3	82	72	65	59	76	67	61	56	58	53	49		49	46	43		41
4	75	64	56	50	69	60	53	47	52	46	42		44	40	36		37
5	69	57	49	43	64	53	46	40	46	40	36		40	35	32		33
6	63	51	43	37	59	48	41	35	42	36	31		36	31	28		30
7	59	46	38	33	54	43	36	31	38	32	28		33	28	24		28
8	54	42	34	29	50	39	32	27	34	29	25		30	25	22		25
9	51	38	31	26	47	36	29	24	32	26	22		27	23	20		23
10	47	35	28	23	44	33	26	22	29	24	20		25	21	18		22

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	2.0
10°-20°	452.1	5.6
20°-30°	667.5	8.2
30°-40°	778.8	9.6
40°-50°	782.2	9.6
50°-60°	686.6	8.5
60°-70°	511.4	6.3
70°-80°	292.1	3.6
80°-90°	86.3	1.1
90°-100°	369.2	4.6
100°-110°	766.8	9.5
110°-120°	716.2	8.8
120°-130°	579.6	7.1
130°-140°	465.6	5.7
140°-150°	351.5	4.3
150°-160°	247.5	3.1
160°-170°	145.9	1.8
170°-180°	47.4	0.6
0°-30°	1279.7	15.8
0°-40°	2058.4	25.4
0°-60°	3527.2	43.5
0°-90°	4417.0	54.5
90°-120°	1852.2	22.8
90°-150°	3248.8	40.1
90°-180°	3690.0	45.5
0°-180°	8106.5	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	9	16	21	23	7
95°	33	96	876	397	232	34
105°	112	156	717	1411	1310	118
115°	200	241	575	1240	1459	197
125°	277	324	552	986	1150	246
135°	324	390	548	827	955	252
145°	378	432	550	684	753	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

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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°	1.0	8.9	15.8	20.8	22.7
92.5°	14.8	81.0	394.4	105.2	73.1
95°	32.6	96.4	875.7	397.3	232.3
97.5°	50.4	104.3	945.9	717.5	509.0
100°	69.2	119.6	892.5	1014.0	770.9
102.5°	89.9	136.9	798.6	1265.1	1063.5
105°	111.7	156.2	716.6	1410.8	1309.6
107.5°	132.4	176.4	655.3	1451.8	1457.8
110°	155.2	197.6	614.8	1412.8	1525.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	219.0	591.0	1331.3	1517.1
115°	199.6	240.6	575.2	1239.9	1458.8
117.5°	219.4	262.9	566.3	1156.9	1370.8
120°	239.2	284.2	560.4	1087.2	1285.8
122.5°	259.9	305.0	555.5	1031.4	1210.7
125°	276.7	324.2	551.5	986.4	1149.5
127.5°	290.6	343.0	549.5	947.8	1093.1
130°	303.4	360.8	547.5	908.8	1048.6
132.5°	313.3	376.5	547.5	866.8	1004.2
135°	324.2	389.9	547.5	826.8	954.7
137.5°	338.0	402.2	548.5	784.8	903.4
140°	349.9	412.6	549.5	746.2	849.0
142.5°	363.7	422.6	550.5	713.1	798.6
145°	377.6	432.4	549.5	684.4	753.1
147.5°	392.4	441.3	547.5	659.7	712.6
150°	405.2	449.2	544.6	639.5	680.0
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)