

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: P1027456

Luminaire Tested: S125DIP-B1090D610UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027456
REPORT IS A COMBINATION OF REPORTS P1001431 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-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

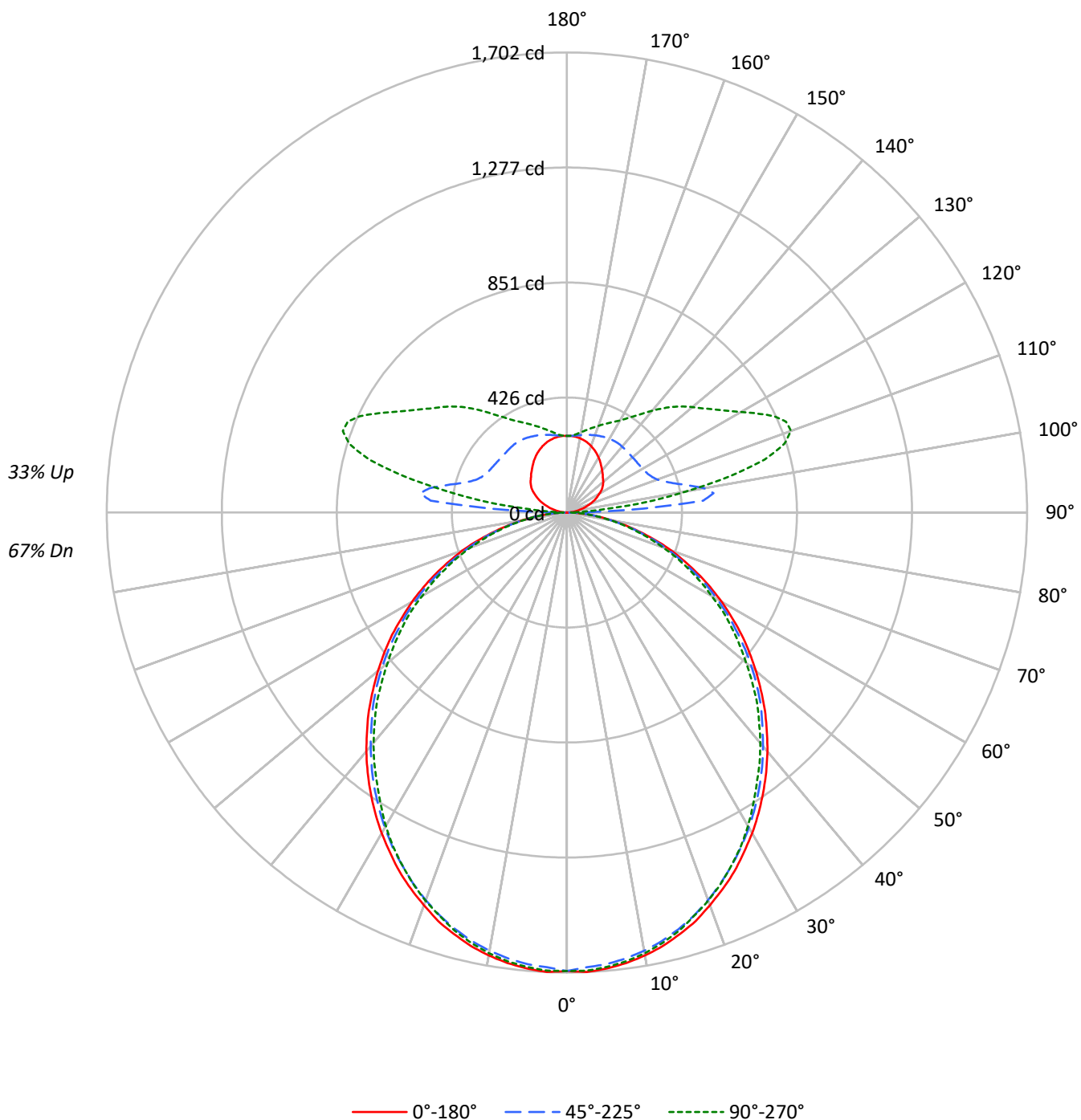
Lumens per Lamp: N/A
Luminaire Lumens: 6550.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	82	82	82	72	72	72
1	102	97	93	89	96	92	88	85	82	79	76	72	70	68	64	62	61
2	93	85	78	73	87	80	75	70	71	67	63	63	60	57	56	53	51
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	44
4	77	66	58	52	73	63	55	49	56	50	45	50	45	41	44	41	37
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33
6	65	53	45	39	62	50	43	37	45	39	34	41	35	32	36	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	31	27	34	29	25	30	26	23
9	53	40	32	27	50	38	31	26	35	29	24	31	26	23	28	24	21
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	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	2.4
10°-20°	452.1	6.9
20°-30°	667.5	10.2
30°-40°	778.8	11.9
40°-50°	782.2	11.9
50°-60°	686.6	10.5
60°-70°	511.4	7.8
70°-80°	292.1	4.5
80°-90°	85.5	1.3
90°-100°	213.5	3.3
100°-110°	443.6	6.8
110°-120°	414.3	6.3
120°-130°	335.2	5.1
130°-140°	269.3	4.1
140°-150°	203.3	3.1
150°-160°	143.1	2.2
160°-170°	84.4	1.3
170°-180°	27.4	0.4
0°-30°	1279.7	19.5
0°-40°	2058.4	31.4
0°-60°	3527.2	53.8
0°-90°	4416.1	67.4
90°-120°	1071.4	16.4
90°-150°	1879.3	28.7
90°-180°	2134.0	32.6
0°-180°	6550.4	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	13	6
95°	19	56	506	230	134	20
105°	65	90	414	816	758	68
115°	116	139	333	717	844	114
125°	160	188	319	571	665	142
135°	188	226	317	478	552	146
145°	218	250	318	396	436	137
155°	249	268	310	350	365	115
165°	272	280	297	315	320	77
175°	283	283	285	289	288	27
180°	284	284	284	284	284	

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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	5.2	9.1	12.0	13.1
92.5°	8.6	46.9	228.1	60.9	42.3
95°	18.9	55.8	506.5	229.8	134.4
97.5°	29.2	60.3	547.1	415.1	294.4
100°	40.0	69.2	516.3	586.6	445.9
102.5°	52.0	79.2	461.9	731.8	615.2
105°	64.6	90.3	414.5	816.2	757.5
107.5°	76.6	102.1	379.0	839.8	843.3
110°	89.8	114.4	355.6	817.3	882.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.9	126.6	341.9	770.1	877.6
115°	115.5	139.2	332.7	717.2	843.8
117.5°	126.9	152.0	327.6	669.2	793.0
120°	138.4	164.4	324.2	628.8	743.8
122.5°	150.4	176.4	321.3	596.6	700.3
125°	160.1	187.6	319.0	570.6	664.9
127.5°	168.1	198.4	317.9	548.2	632.3
130°	175.5	208.6	316.7	525.7	606.6
132.5°	181.2	217.8	316.7	501.4	580.9
135°	187.5	225.6	316.7	478.2	552.3
137.5°	195.5	232.7	317.3	453.9	522.5
140°	202.4	238.7	317.9	431.6	491.1
142.5°	210.4	244.4	318.4	412.5	461.9
145°	218.4	250.1	317.9	395.9	435.6
147.5°	227.0	255.3	316.7	381.6	412.2
150°	234.4	259.8	315.0	369.9	393.3
152.5°	242.4	264.4	312.7	359.9	378.5
155°	249.3	268.1	309.9	350.2	365.3
157.5°	255.6	271.8	307.0	341.0	353.3
160°	261.8	274.7	304.1	331.9	341.3
162.5°	267.0	277.6	300.7	323.6	330.4
165°	272.1	279.6	297.3	315.3	320.2
167.5°	275.6	280.8	293.9	307.5	310.4
170°	279.0	282.2	291.0	300.2	301.9
172.5°	281.3	282.7	287.6	294.2	293.9
175°	283.0	283.0	285.3	288.7	287.6
177.5°	284.1	283.0	283.6	285.3	283.6
180°	283.6	283.6	283.6	283.6	283.6

(END OF REPORT)