

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: P1027366

Luminaire Tested: S125DIP-B1090D1270UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027366
REPORT IS A COMBINATION OF REPORTS P1001311 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB30-4F0-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

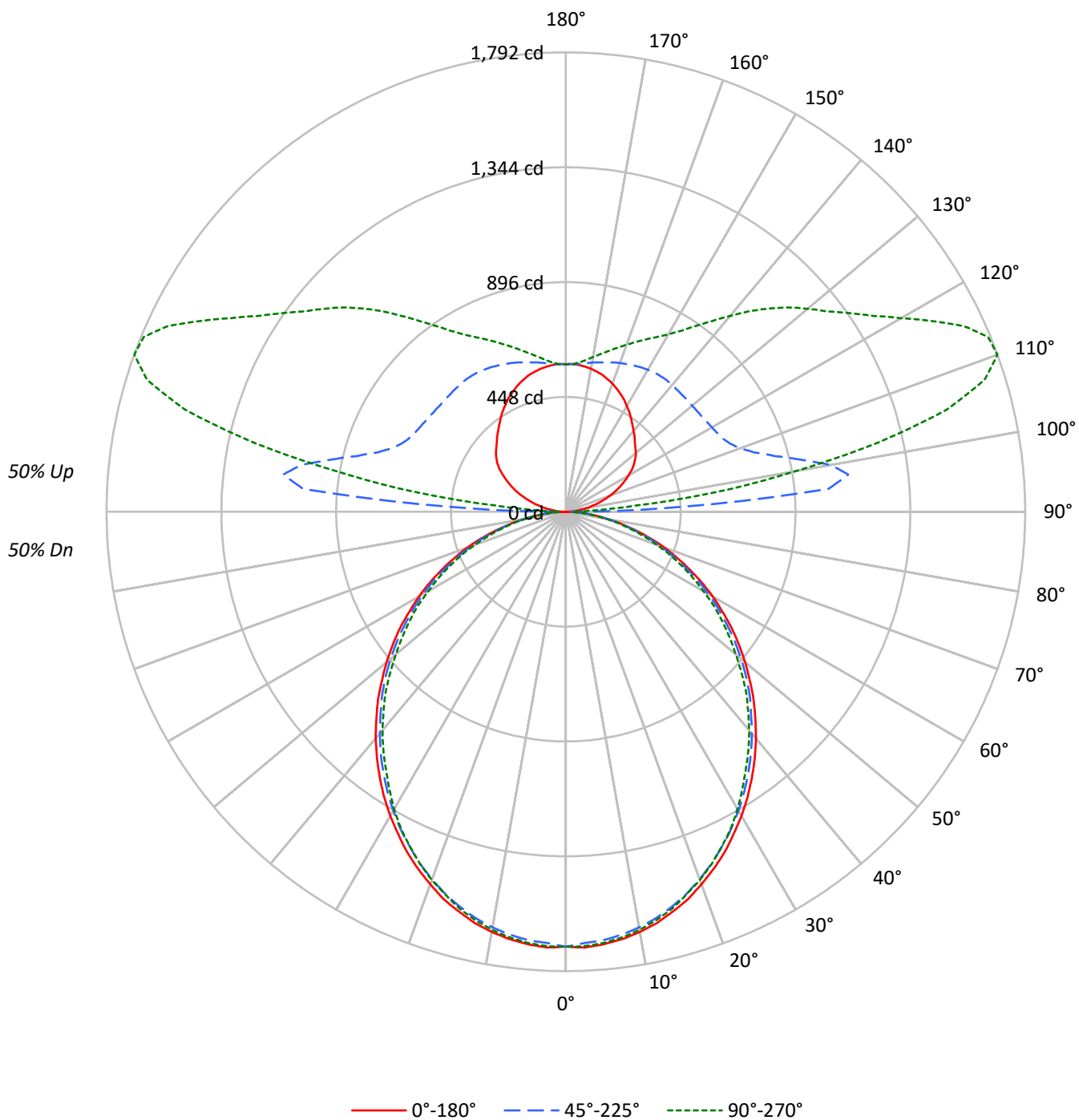
Lumens per Lamp: N/A
Luminaire Lumens: 8751.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	98	93	90	86	90	86	83	80	73	71	69		61	59	58		50
2	89	82	75	70	82	76	70	66	64	60	57		54	51	48		44
3	81	72	64	58	75	66	60	55	57	52	48		47	44	41		39
4	74	63	55	49	68	59	52	46	50	45	41		42	38	35		35
5	68	57	48	42	63	52	45	40	45	39	35		38	34	30		31
6	63	51	43	37	58	47	40	35	40	35	30		34	30	26		28
7	58	46	38	32	53	43	35	30	37	31	27		31	27	23		26
8	54	42	34	28	50	39	32	27	33	28	24		28	24	21		24
9	50	38	30	25	46	35	29	24	31	25	21		26	22	19		22
10	47	35	28	23	43	33	26	22	28	23	19		24	20	17		20

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	1.8
10°-20°	452.1	5.2
20°-30°	667.5	7.6
30°-40°	778.8	8.9
40°-50°	782.2	8.9
50°-60°	686.6	7.8
60°-70°	511.4	5.8
70°-80°	292.1	3.3
80°-90°	86.6	1.0
90°-100°	433.7	5.0
100°-110°	900.8	10.3
110°-120°	841.4	9.6
120°-130°	680.8	7.8
130°-140°	547.0	6.3
140°-150°	412.9	4.7
150°-160°	290.7	3.3
160°-170°	171.4	2.0
170°-180°	55.7	0.6
0°-30°	1279.7	14.6
0°-40°	2058.4	23.5
0°-60°	3527.2	40.3
0°-90°	4417.3	50.5
90°-120°	2175.9	24.9
90°-150°	3816.8	43.6
90°-180°	4335.0	49.5
0°-180°	8751.9	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	10	19	24	27	8
95°	38	113	1029	467	273	40
105°	131	183	842	1658	1538	138
115°	234	283	676	1457	1714	231
125°	325	381	648	1159	1350	289
135°	381	458	643	971	1122	296
145°	444	508	646	804	885	278
155°	506	545	629	711	742	233
165°	553	568	604	640	650	156
175°	575	575	579	586	584	55
180°	576	576	576	576	576	

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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°	1.2	10.4	18.6	24.4	26.7
92.5°	17.4	95.2	463.3	123.6	85.9
95°	38.3	113.2	1028.8	466.8	272.9
97.5°	59.2	122.5	1111.2	843.0	598.0
100°	81.3	140.5	1048.5	1191.3	905.7
102.5°	105.7	160.8	938.2	1486.2	1249.4
105°	131.2	183.4	841.8	1657.5	1538.5
107.5°	155.6	207.2	769.8	1705.6	1712.7
110°	182.3	232.2	722.2	1659.8	1791.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.0	257.2	694.4	1564.1	1782.3
115°	234.5	282.7	675.8	1456.6	1713.8
117.5°	257.8	308.8	665.3	1359.1	1610.5
120°	281.0	333.8	658.4	1277.2	1510.6
122.5°	305.4	358.2	652.6	1211.6	1422.4
125°	325.1	380.8	647.9	1158.8	1350.4
127.5°	341.4	402.9	645.6	1113.5	1284.2
130°	356.5	423.8	643.3	1067.6	1232.0
132.5°	368.1	442.4	643.3	1018.3	1179.7
135°	380.8	458.0	643.3	971.3	1121.6
137.5°	397.1	472.6	644.4	922.0	1061.3
140°	411.0	484.8	645.6	876.6	997.4
142.5°	427.3	496.4	646.7	837.8	938.2
145°	443.5	508.0	645.6	804.1	884.8
147.5°	461.0	518.4	643.3	775.0	837.2
150°	476.1	527.8	639.8	751.2	798.9
152.5°	492.3	537.0	635.1	731.0	768.7
155°	506.3	544.6	629.3	711.2	742.0
157.5°	519.0	552.1	623.5	692.6	717.6
160°	531.8	557.9	617.7	674.0	693.2
162.5°	542.2	563.8	610.8	657.2	671.1
165°	552.7	567.8	603.8	640.4	650.2
167.5°	559.7	570.1	596.8	624.7	630.5
170°	566.6	573.0	591.0	609.6	613.1
172.5°	571.3	574.2	584.0	597.4	596.8
175°	574.8	574.8	579.4	586.4	584.0
177.5°	577.1	574.8	575.9	579.4	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)