

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: P1027409

Luminaire Tested: S125DIP-B1090D375UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027409
REPORT IS A COMBINATION OF REPORTS P1001369 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

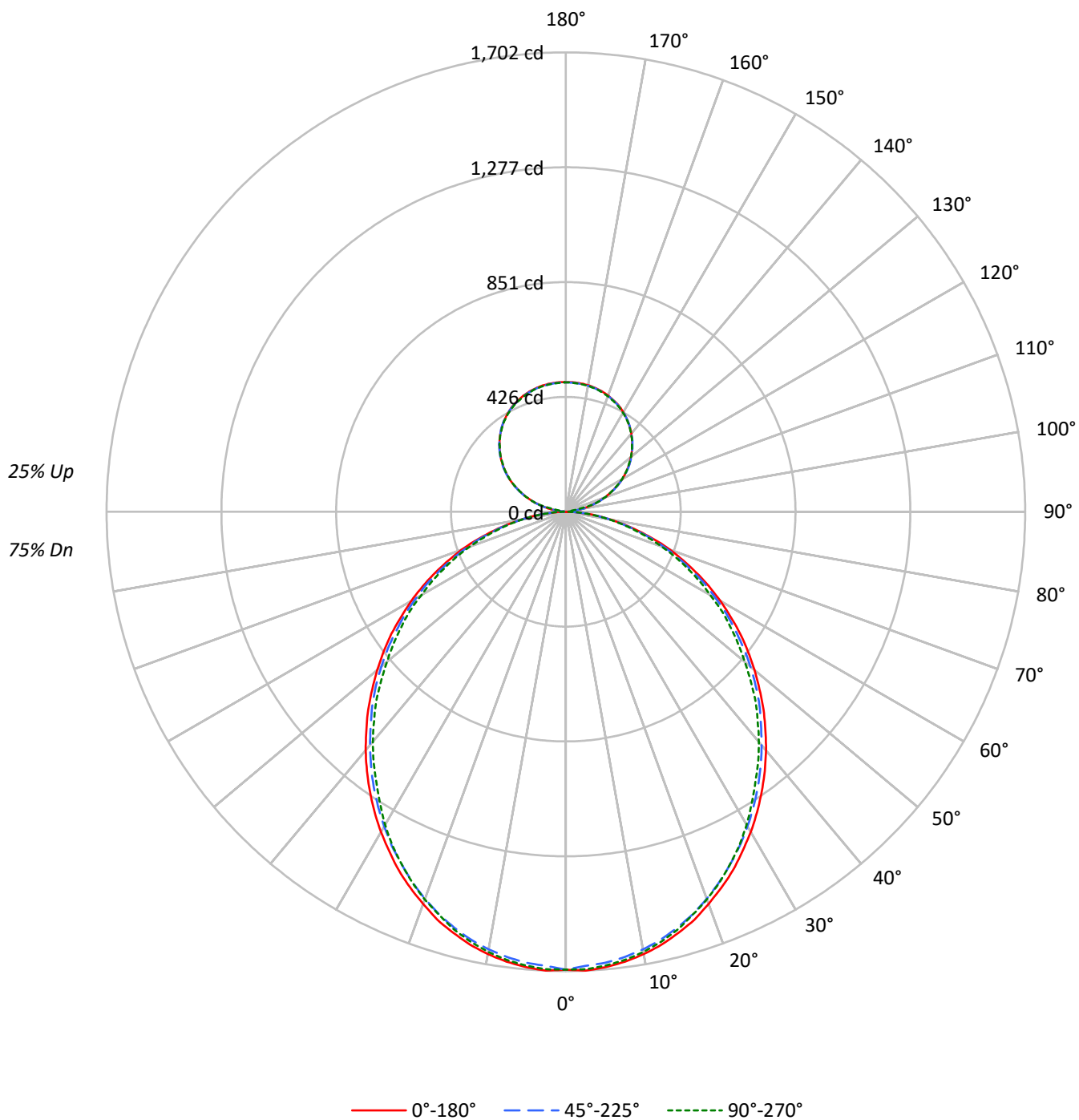
Lumens per Lamp: N/A
Luminaire Lumens: 5889.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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

TEST NUMBER: P1027409

CATALOG NUMBER: S125DIP-B1090D375UB30-4F0-XX-W2A-F

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	70	68	67
2	94	86	80	74	89	82	76	72	75	70	66	68	64	61	61	59	56
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	49	45	41
5	72	60	52	45	68	57	50	44	53	46	41	48	43	38	44	39	36
6	67	54	46	39	63	52	44	38	47	41	36	44	38	34	40	35	32
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23
10	50	38	30	25	48	36	29	24	34	27	23	31	26	22	29	24	21

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

TEST NUMBER: P1027409

CATALOG NUMBER: S125DIP-B1090D375UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	2.7
10°-20°	452.1	7.7
20°-30°	667.5	11.3
30°-40°	778.8	13.2
40°-50°	782.2	13.3
50°-60°	686.6	11.7
60°-70°	511.4	8.7
70°-80°	292.1	5.0
80°-90°	85.0	1.4
90°-100°	16.3	0.3
100°-110°	108.2	1.8
110°-120°	194.9	3.3
120°-130°	250.2	4.2
130°-140°	269.1	4.6
140°-150°	252.6	4.3
150°-160°	204.3	3.5
160°-170°	132.1	2.2
170°-180°	45.6	0.8
0°-30°	1279.7	21.7
0°-40°	2058.4	35.0
0°-60°	3527.2	59.9
0°-90°	4415.7	75.0
90°-120°	319.5	5.4
90°-150°	1091.3	18.5
90°-180°	1473.0	25.0
0°-180°	5889.0	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°	0	3	6	8	8	6
95°	20	19	6	8	8	25
105°	104	106	106	106	106	111
115°	196	198	198	197	195	195
125°	279	282	282	280	279	249
135°	348	350	350	349	347	268
145°	404	404	404	405	402	252
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

TEST NUMBER: P1027409

CATALOG NUMBER: S125DIP-B1090D375UB30-4F0-XX-W2A-F

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°	0.4	3.2	5.7	7.5	8.5
92.5°	6.8	3.6	5.7	7.5	7.8
95°	20.3	19.2	5.7	7.5	7.5
97.5°	38.0	40.2	6.4	7.1	7.5
100°	59.4	60.4	61.9	8.9	7.5
102.5°	81.1	82.5	83.2	83.9	54.0
105°	104.5	105.9	105.9	105.9	105.6
107.5°	128.7	128.7	129.4	129.8	128.3
110°	152.2	152.2	152.9	151.8	152.2



TEST NUMBER: P1027409

CATALOG NUMBER: S125DIP-B1090D375UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.2	175.3	175.6	174.2	173.5
115°	196.3	198.0	198.4	197.0	194.8
117.5°	219.4	219.4	220.8	218.7	217.9
120°	240.7	240.3	241.4	240.7	238.9
122.5°	259.5	261.3	261.7	261.0	258.8
125°	279.1	281.6	281.6	280.2	279.1
127.5°	297.9	299.7	299.4	298.7	295.8
130°	315.0	316.8	317.1	316.1	314.3
132.5°	332.1	334.2	333.1	333.1	331.4
135°	348.1	350.2	349.5	348.8	346.6
137.5°	363.0	365.1	364.4	364.4	362.6
140°	377.6	378.3	377.9	378.6	376.5
142.5°	390.7	391.1	391.8	391.8	389.7
145°	403.5	404.2	404.2	404.6	402.5
147.5°	414.9	414.9	415.3	415.6	413.1
150°	425.6	424.9	425.6	426.3	423.4
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)