

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: P1027500

Luminaire Tested: S125DIP-B1090D850UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027500
REPORT IS A COMBINATION OF REPORTS P1001490 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-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

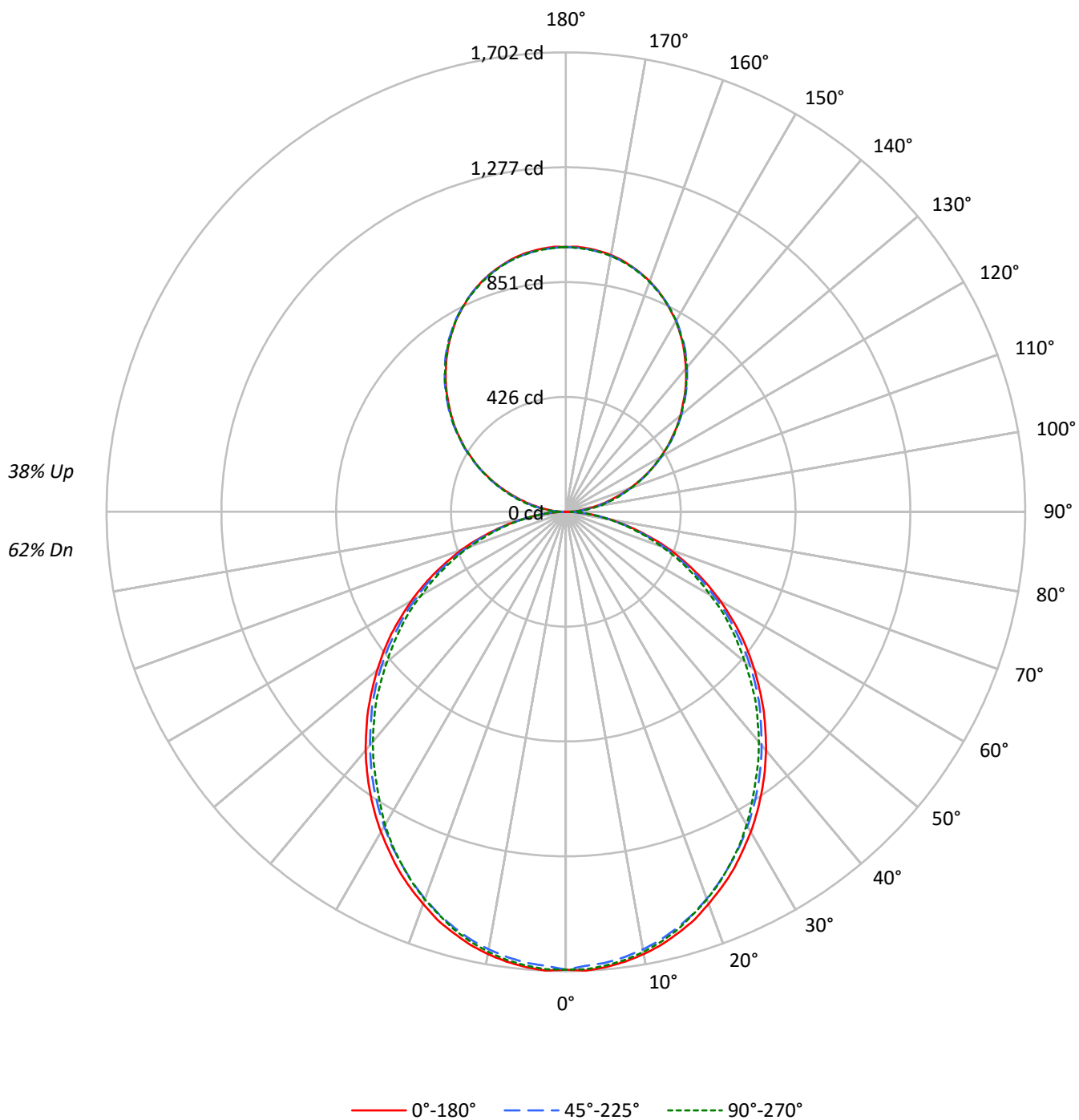
Lumens per Lamp: N/A
Luminaire Lumens: 7155.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	90	90	90	78	78	78	67	67	67
1	100	96	92	88	94	90	86	83	79	76	74	68	67	65	59	58	56
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	47
3	83	74	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	38	35
5	70	58	50	44	65	55	47	42	48	42	38	43	38	34	37	33	30
6	65	52	44	38	60	49	42	36	44	38	33	38	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	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	6.3
20°-30°	667.5	9.3
30°-40°	778.8	10.9
40°-50°	782.2	10.9
50°-60°	686.6	9.6
60°-70°	511.4	7.1
70°-80°	292.1	4.1
80°-90°	85.8	1.2
90°-100°	65.2	0.9
100°-110°	193.8	2.7
110°-120°	328.7	4.6
120°-130°	432.8	6.0
130°-140°	485.0	6.8
140°-150°	475.3	6.6
150°-160°	399.3	5.6
160°-170°	265.4	3.7
170°-180°	92.9	1.3
0°-30°	1279.7	17.9
0°-40°	2058.4	28.8
0°-60°	3527.2	49.3
0°-90°	4416.5	61.7
90°-120°	587.8	8.2
90°-150°	1980.9	27.7
90°-180°	2738.0	38.3
0°-180°	7155.0	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°	1	7	12	16	18	8
95°	50	51	59	64	66	52
105°	174	178	182	187	189	186
115°	329	332	334	333	332	326
125°	480	485	486	484	483	430
135°	625	629	630	630	627	481
145°	757	760	762	762	760	473
155°	866	866	867	870	866	399
165°	942	940	941	944	939	266
175°	979	976	976	980	975	93
180°	981	981	981	981	981	

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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	6.9	12.2	16.0	18.3
92.5°	22.9	26.7	33.6	38.9	40.5
95°	49.6	51.2	58.8	64.1	65.7
97.5°	76.4	77.1	87.8	92.4	93.2
100°	106.9	106.9	116.8	123.7	125.2
102.5°	139.7	143.6	147.4	155.0	157.3
105°	174.1	177.9	182.5	187.1	189.4
107.5°	211.5	215.3	219.1	221.4	221.4
110°	250.5	254.3	256.6	258.9	258.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	291.7	294.7	295.5	294.0
115°	329.1	332.2	333.7	332.9	332.2
117.5°	368.8	369.6	371.1	371.9	368.8
120°	405.5	409.3	410.0	410.0	407.0
122.5°	445.2	445.9	448.2	447.5	445.2
125°	480.3	484.9	485.6	484.1	483.3
127.5°	519.2	521.5	522.3	521.5	520.0
130°	553.6	557.4	558.9	558.2	556.7
132.5°	588.0	594.8	594.1	593.3	591.0
135°	624.6	629.2	630.0	630.0	626.9
137.5°	659.0	663.6	665.1	665.8	662.0
140°	691.8	695.6	697.9	699.4	695.6
142.5°	724.6	727.7	730.8	731.5	727.7
145°	756.7	759.8	762.1	762.1	759.8
147.5°	786.5	788.8	790.3	792.6	786.5
150°	816.3	815.5	818.6	818.6	817.0
152.5°	840.7	842.2	843.0	845.3	842.2
155°	865.9	865.9	866.7	869.7	865.9
157.5°	888.8	887.3	888.1	891.1	885.8
160°	908.7	906.4	907.1	910.2	906.4
162.5°	926.2	924.7	924.7	928.5	923.9
165°	941.5	940.0	940.7	943.8	939.2
167.5°	955.2	952.2	952.2	956.8	952.2
170°	965.9	962.9	962.9	967.5	962.1
172.5°	973.6	970.5	970.5	975.1	970.5
175°	978.9	975.9	975.9	980.4	975.1
177.5°	982.7	979.7	978.9	983.5	978.2
180°	981.2	981.2	981.2	981.2	981.2

(END OF REPORT)