

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: P1027491

Luminaire Tested: S125DIP-B1090D850UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027491
REPORT IS A COMBINATION OF REPORTS P1001466 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

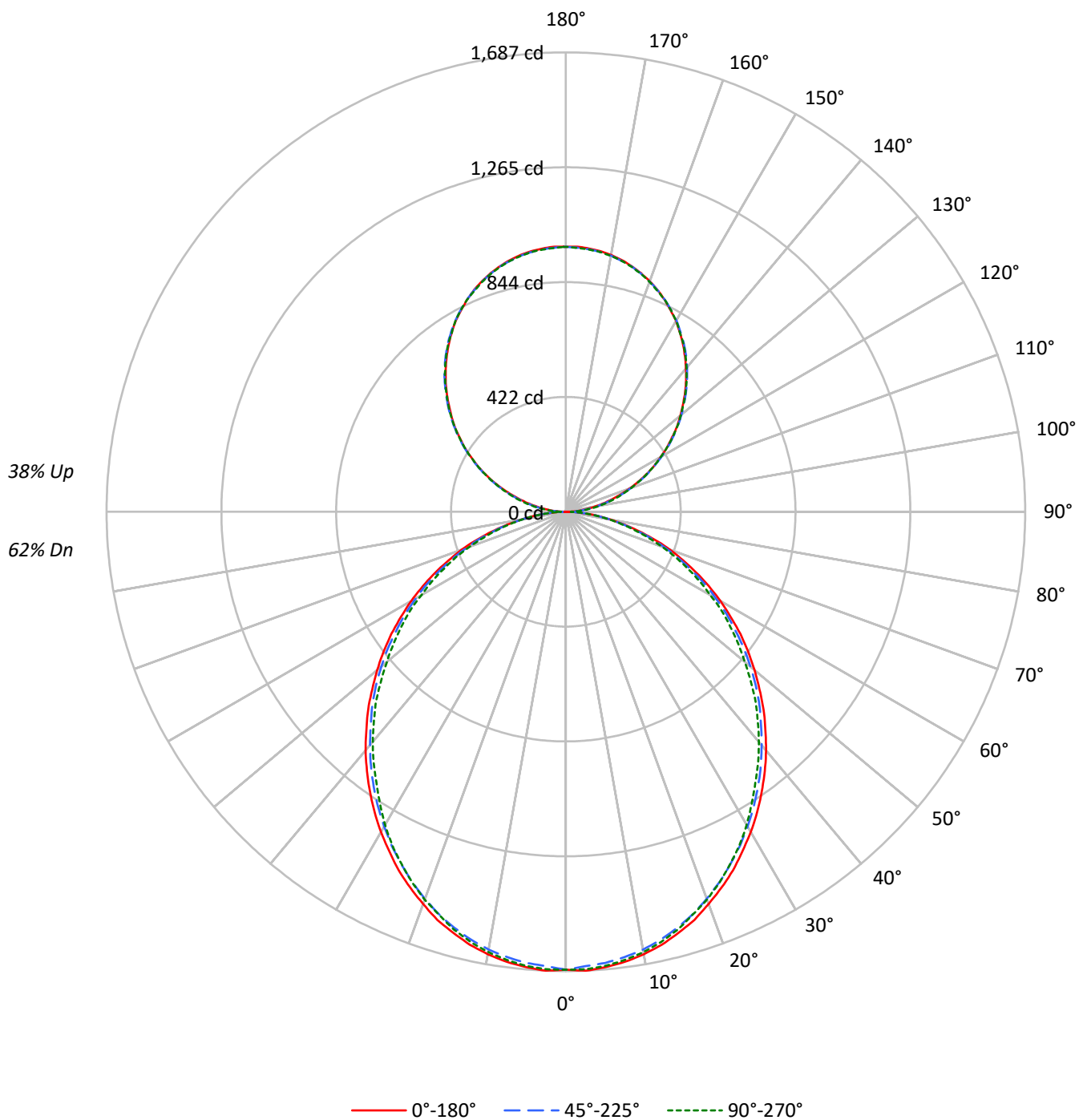
Lumens per Lamp: N/A
Luminaire Lumens: 7094.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	2.2
10°-20°	448.2	6.3
20°-30°	661.7	9.3
30°-40°	772.1	10.9
40°-50°	775.4	10.9
50°-60°	680.7	9.6
60°-70°	507.0	7.1
70°-80°	289.6	4.1
80°-90°	85.1	1.2
90°-100°	64.7	0.9
100°-110°	192.2	2.7
110°-120°	326.0	4.6
120°-130°	429.1	6.0
130°-140°	480.9	6.8
140°-150°	471.4	6.6
150°-160°	395.9	5.6
160°-170°	263.2	3.7
170°-180°	92.1	1.3
0°-30°	1268.7	17.9
0°-40°	2040.7	28.8
0°-60°	3496.8	49.3
0°-90°	4378.5	61.7
90°-120°	582.9	8.2
90°-150°	1964.3	27.7
90°-180°	2715.0	38.3
0°-180°	7094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	7	12	16	18	8
95°	49	51	58	64	65	51
105°	173	176	181	186	188	184
115°	326	329	331	330	329	323
125°	476	481	482	480	479	427
135°	619	624	625	625	622	477
145°	750	753	756	756	753	469
155°	859	859	859	862	859	396
165°	934	932	933	936	931	263
175°	971	968	968	972	967	92
180°	973	973	973	973	973	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	0.8	6.8	12.1	15.9	18.2
92.5°	22.7	26.5	33.3	38.6	40.1
95°	49.2	50.7	58.3	63.6	65.1
97.5°	75.7	76.5	87.1	91.6	92.4
100°	106.0	106.0	115.8	122.7	124.2
102.5°	138.6	142.3	146.1	153.7	156.0
105°	172.6	176.4	181.0	185.5	187.8
107.5°	209.7	213.5	217.3	219.6	219.6
110°	248.4	252.1	254.4	256.7	255.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.7	289.2	292.3	293.0	291.5
115°	326.3	329.4	330.9	330.1	329.4
117.5°	365.7	366.5	368.0	368.7	365.7
120°	402.1	405.8	406.6	406.6	403.6
122.5°	441.4	442.2	444.5	443.7	441.4
125°	476.3	480.8	481.6	480.0	479.3
127.5°	514.9	517.2	517.9	517.2	515.6
130°	549.0	552.7	554.3	553.5	552.0
132.5°	583.0	589.8	589.1	588.3	586.1
135°	619.4	623.9	624.7	624.7	621.6
137.5°	653.4	658.0	659.5	660.3	656.5
140°	686.0	689.8	692.1	693.6	689.8
142.5°	718.6	721.6	724.6	725.4	721.6
145°	750.4	753.4	755.7	755.7	753.4
147.5°	779.9	782.2	783.7	785.9	779.9
150°	809.4	808.7	811.7	811.7	810.2
152.5°	833.7	835.2	835.9	838.2	835.2
155°	858.6	858.6	859.4	862.4	858.6
157.5°	881.4	879.8	880.6	883.6	878.3
160°	901.0	898.8	899.5	902.6	898.8
162.5°	918.5	916.9	916.9	920.7	916.2
165°	933.6	932.1	932.8	935.9	931.3
167.5°	947.2	944.2	944.2	948.7	944.2
170°	957.8	954.8	954.8	959.3	954.0
172.5°	965.4	962.4	962.4	966.9	962.4
175°	970.7	967.7	967.7	972.2	966.9
177.5°	974.5	971.5	970.7	975.2	969.9
180°	973.0	973.0	973.0	973.0	973.0

(END OF REPORT)