

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: P1027713

Luminaire Tested: S125DIP-B1270D850UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027713
REPORT IS A COMBINATION OF REPORTS P1001766 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB27-4F0-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

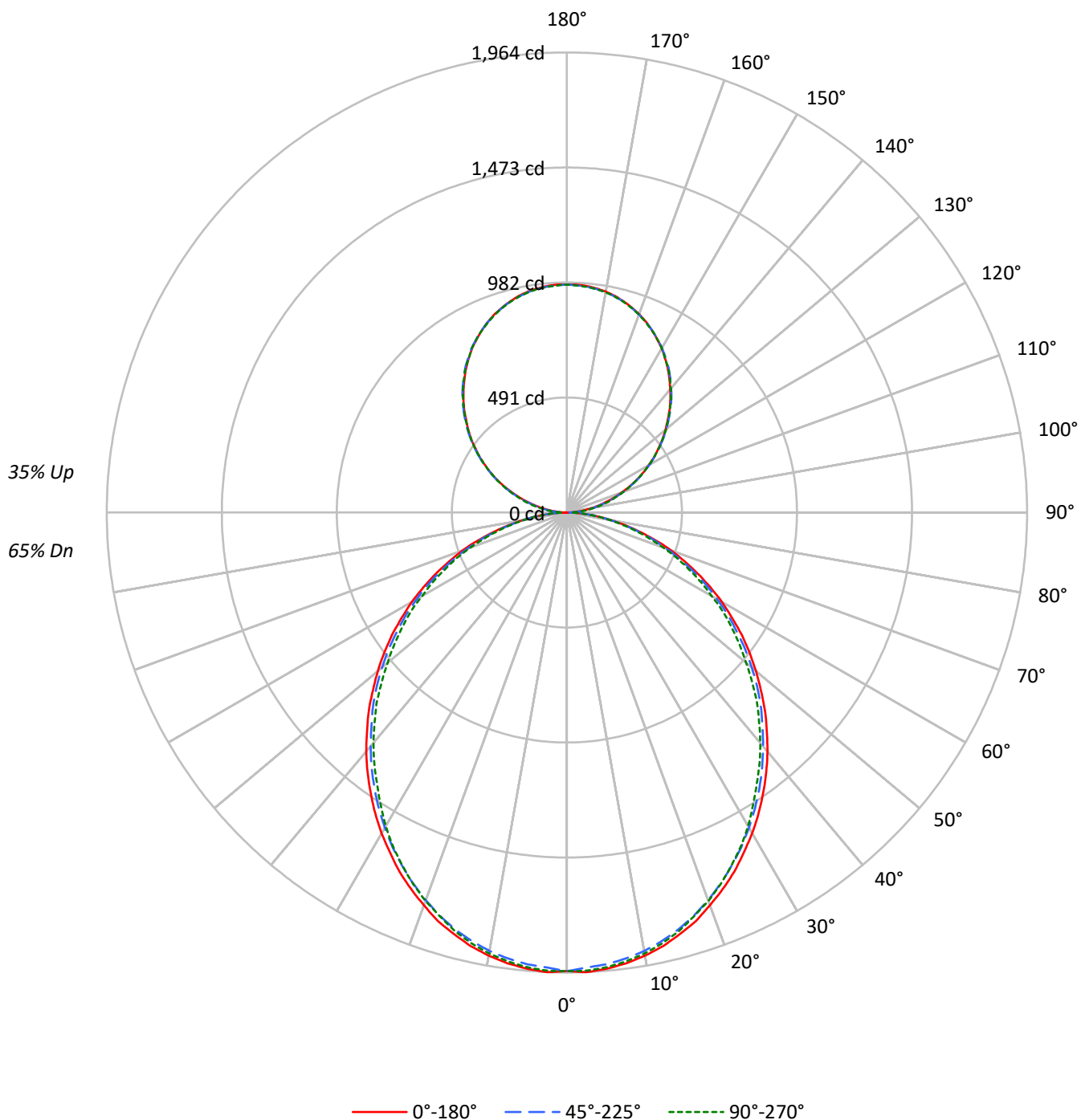
Lumens per Lamp: N/A
Luminaire Lumens: 7813.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 82.4
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	104	104	104	104	92	92	92	81	81	81	70	70	70
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59
2	92	84	78	73	86	80	74	69	71	66	62	62	59	56	54	52	50
3	84	74	67	61	79	70	63	58	62	57	52	55	51	47	48	45	42
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36
5	71	59	50	44	66	55	48	42	50	43	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	25	22
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.4
10°-20°	521.9	6.7
20°-30°	770.4	9.9
30°-40°	898.9	11.5
40°-50°	902.8	11.6
50°-60°	792.5	10.1
60°-70°	590.3	7.6
70°-80°	337.1	4.3
80°-90°	98.8	1.3
90°-100°	64.7	0.8
100°-110°	192.2	2.5
110°-120°	326.0	4.2
120°-130°	429.1	5.5
130°-140°	480.9	6.2
140°-150°	471.4	6.0
150°-160°	395.9	5.1
160°-170°	263.2	3.4
170°-180°	92.1	1.2
0°-30°	1477.1	18.9
0°-40°	2376.0	30.4
0°-60°	4071.3	52.1
0°-90°	5097.5	65.2
90°-120°	582.9	7.5
90°-150°	1964.3	25.1
90°-180°	2715.0	34.7
0°-180°	7813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	1	7	12	16	18	9
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°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
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)