

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: P1027746

Luminaire Tested: S125DIP-B1270D850UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027746
REPORT IS A COMBINATION OF REPORTS P1001817 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

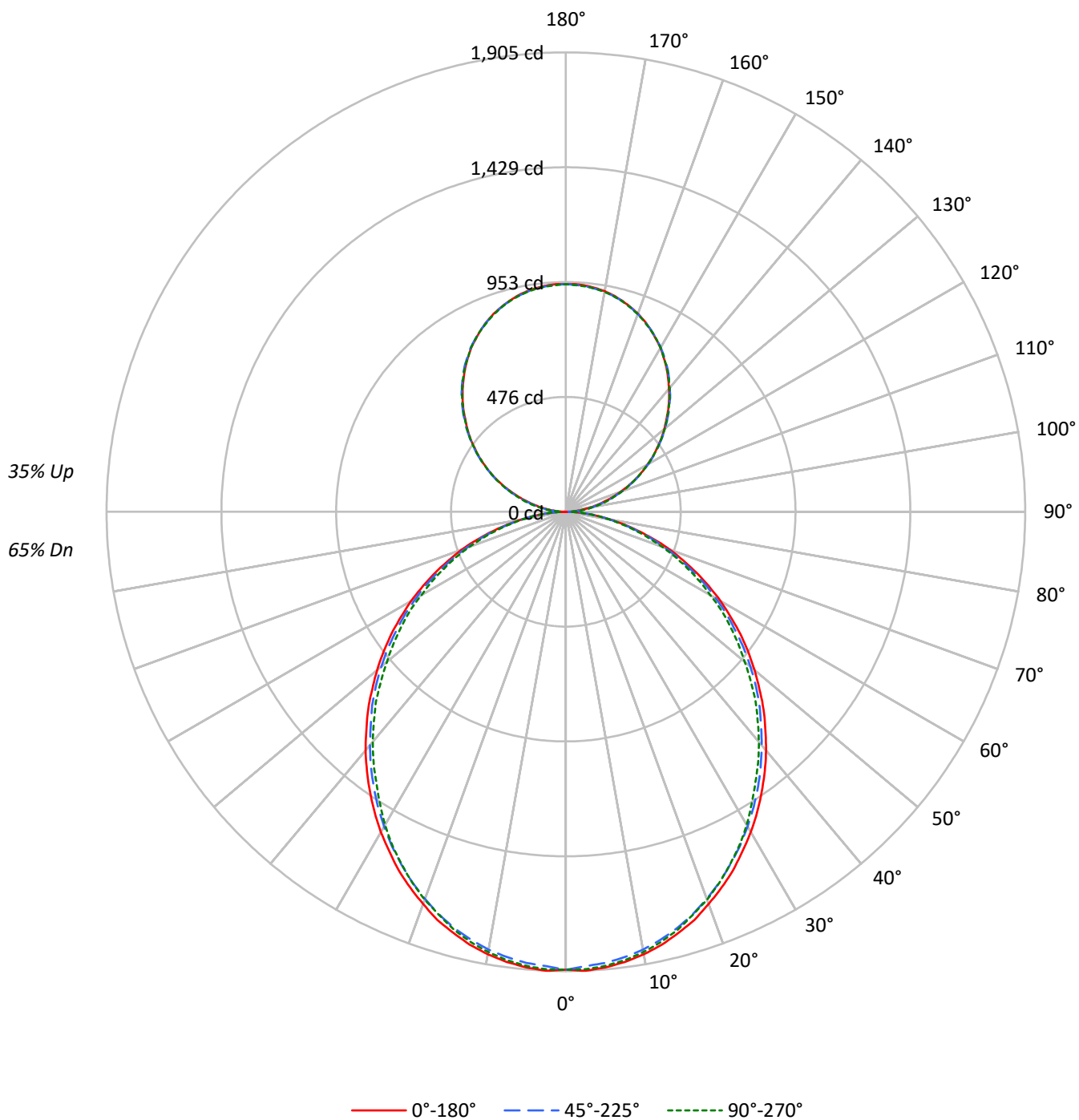
Lumens per Lamp: N/A
Luminaire Lumens: 7578.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	12168	12168	12168
5°	12168	11886	11908
10°	12068	11613	11577
15°	11910	11287	11186
20°	11695	10909	10738
25°	11465	10497	10258
30°	11187	10068	9753
35°	10891	9618	9186
40°	10585	9142	8683
45°	10254	8678	8148
50°	9889	8152	7525
55°	9529	7571	6951
60°	9098	6960	6284
65°	8583	6253	5594
70°	8060	5438	4798
75°	7178	4478	3880
80°	6117	3345	2854
85°	4723	1977	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	2.4
10°-20°	506.2	6.7
20°-30°	747.3	9.9
30°-40°	871.9	11.5
40°-50°	875.7	11.6
50°-60°	768.7	10.1
60°-70°	572.6	7.6
70°-80°	327.0	4.3
80°-90°	95.9	1.3
90°-100°	62.7	0.8
100°-110°	186.4	2.5
110°-120°	316.1	4.2
120°-130°	416.2	5.5
130°-140°	466.4	6.2
140°-150°	457.1	6.0
150°-160°	384.0	5.1
160°-170°	255.2	3.4
170°-180°	89.3	1.2
0°-30°	1432.7	18.9
0°-40°	2304.6	30.4
0°-60°	3949.0	52.1
0°-90°	4944.4	65.2
90°-120°	565.3	7.5
90°-150°	1905.0	25.1
90°-180°	2634.0	34.8
0°-180°	7578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1896	1893	1878	1892	1890	180
15°	1808	1803	1786	1794	1794	510
25°	1641	1633	1614	1617	1612	755
35°	1417	1411	1390	1382	1370	886
45°	1160	1154	1136	1118	1113	894
55°	884	879	858	844	834	789
65°	596	594	577	563	557	592
75°	317	314	306	302	296	337
85°	83	84	84	83	80	90
90°	1	7	12	15	18	9
95°	48	49	56	62	63	50
105°	167	171	176	180	182	179
115°	316	319	321	320	319	313
125°	462	466	467	466	465	414
135°	601	605	606	606	603	463
145°	728	731	733	733	731	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.1	1899.1	1899.1	1899.1	1899.1
2.5°	1905.2	1900.6	1885.6	1900.6	1899.1
5°	1896.1	1893.1	1878.1	1891.6	1890.1
7.5°	1882.6	1879.6	1863.1	1876.6	1875.1
10°	1863.1	1860.1	1843.6	1855.6	1854.1
12.5°	1839.0	1833.0	1818.0	1827.0	1827.0
15°	1807.5	1803.0	1786.5	1794.0	1794.0
17.5°	1774.4	1766.9	1750.4	1759.4	1751.9
20°	1730.9	1727.9	1708.3	1718.8	1711.3
22.5°	1687.3	1681.3	1663.3	1669.3	1664.8
25°	1640.7	1633.2	1613.7	1616.7	1612.2
27.5°	1586.6	1582.1	1562.6	1564.1	1559.6
30°	1534.0	1529.5	1507.0	1504.0	1499.5
32.5°	1476.9	1469.4	1449.9	1443.9	1434.9
35°	1416.8	1410.8	1389.8	1382.3	1370.3
37.5°	1355.2	1347.7	1328.2	1317.7	1310.2
40°	1292.1	1284.6	1263.6	1250.1	1245.6
42.5°	1224.5	1218.5	1197.5	1185.5	1177.9
45°	1159.9	1153.9	1135.9	1117.8	1113.3
47.5°	1089.3	1090.8	1068.3	1050.2	1039.7
50°	1021.7	1017.2	999.2	979.6	969.1
52.5°	952.6	949.6	930.0	913.5	901.5
55°	883.5	879.0	857.9	844.4	833.9
57.5°	809.8	808.3	790.3	772.3	767.8
60°	740.7	734.7	718.2	703.2	692.6
62.5°	668.6	664.1	650.6	634.0	626.5
65°	596.5	593.5	577.0	563.4	557.4
67.5°	525.9	519.9	507.8	495.8	492.8
70°	459.8	452.2	438.7	429.7	423.7
72.5°	387.6	383.1	375.6	365.1	359.1
75°	317.0	314.0	306.5	302.0	296.0
77.5°	250.9	249.4	244.9	241.9	237.4
80°	189.3	189.3	186.3	184.8	181.8
82.5°	135.2	132.2	132.2	129.2	129.2
85°	82.6	84.1	84.1	82.6	79.6
87.5°	40.6	40.6	39.1	39.1	36.1
90°	0.7	6.6	11.7	15.4	17.6
92.5°	22.0	25.7	32.3	37.5	38.9
95°	47.7	49.2	56.5	61.7	63.2
97.5°	73.4	74.2	84.4	88.9	89.6
100°	102.8	102.8	112.4	119.0	120.4
102.5°	134.4	138.1	141.7	149.1	151.3
105°	167.4	171.1	175.5	179.9	182.1
107.5°	203.4	207.1	210.8	213.0	213.0
110°	240.9	244.5	246.7	248.9	248.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.0	280.5	283.4	284.2	282.7
115°	316.5	319.4	320.9	320.2	319.4
117.5°	354.7	355.4	356.9	357.6	354.7
120°	389.9	393.6	394.3	394.3	391.4
122.5°	428.1	428.8	431.0	430.3	428.1
125°	461.9	466.3	467.0	465.6	464.8
127.5°	499.3	501.5	502.3	501.5	500.1
130°	532.4	536.1	537.5	536.8	535.3
132.5°	565.4	572.0	571.3	570.6	568.4
135°	600.7	605.1	605.8	605.8	602.9
137.5°	633.7	638.1	639.6	640.3	636.7
140°	665.3	669.0	671.2	672.6	669.0
142.5°	696.9	699.8	702.7	703.5	699.8
145°	727.7	730.7	732.9	732.9	730.7
147.5°	756.4	758.6	760.0	762.2	756.4
150°	785.0	784.3	787.2	787.2	785.7
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)