

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: P1027740

Luminaire Tested: S125DIP-B1270D850UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027740
REPORT IS A COMBINATION OF REPORTS P1001808 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

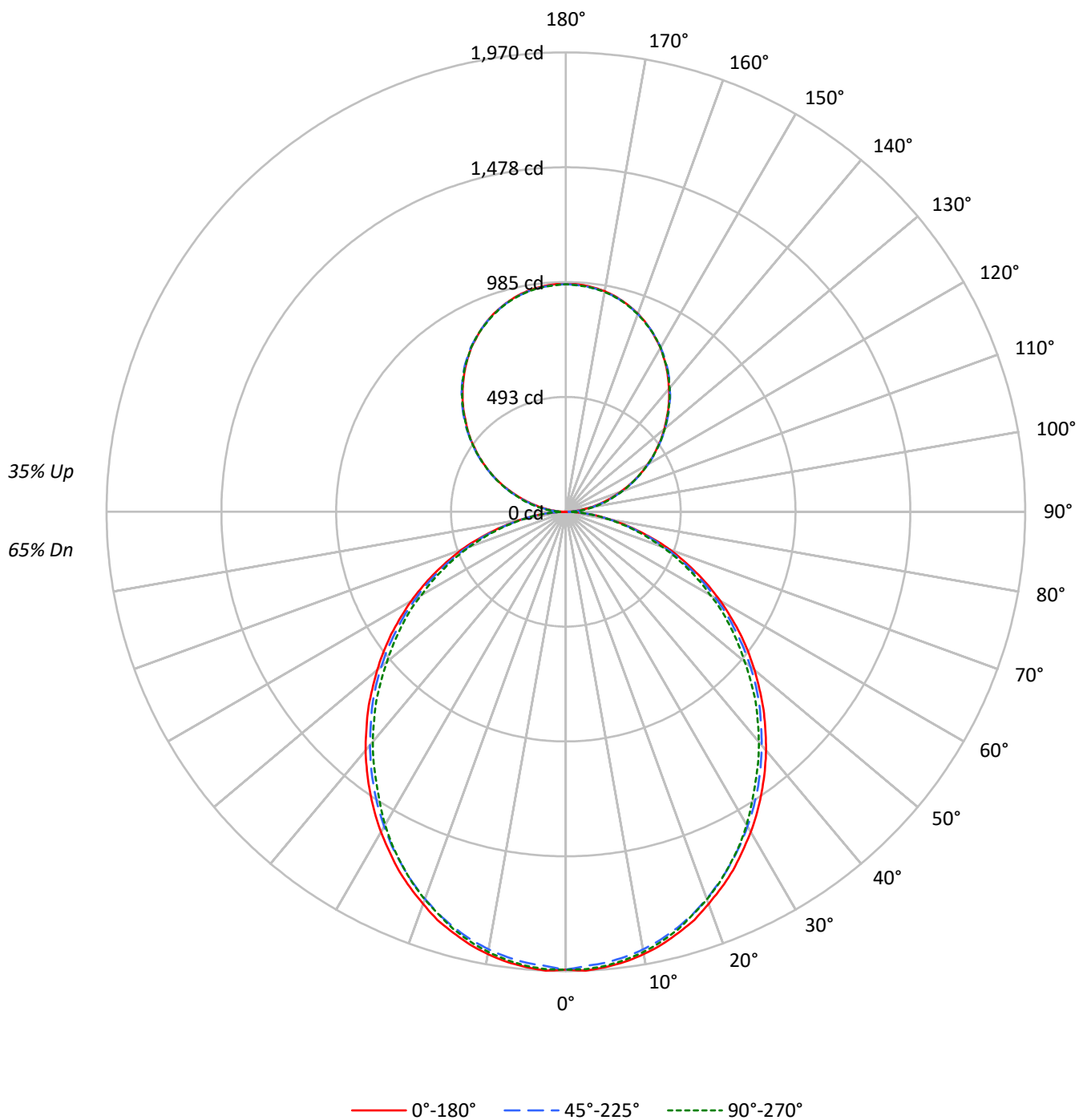
Lumens per Lamp: N/A
Luminaire Lumens: 7836.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	12582	12582	12582
5°	12582	12289	12313
10°	12478	12008	11970
15°	12314	11671	11566
20°	12093	11280	11103
25°	11855	10854	10607
30°	11568	10410	10084
35°	11262	9944	9498
40°	10945	9452	8978
45°	10602	8973	8425
50°	10225	8429	7780
55°	9852	7829	7187
60°	9407	7197	6498
65°	8875	6465	5785
70°	8333	5623	4961
75°	7422	4630	4011
80°	6324	3458	2951
85°	4883	2046	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.4
10°-20°	523.4	6.7
20°-30°	772.7	9.9
30°-40°	901.5	11.5
40°-50°	905.5	11.6
50°-60°	794.8	10.1
60°-70°	592.0	7.6
70°-80°	338.1	4.3
80°-90°	99.1	1.3
90°-100°	64.9	0.8
100°-110°	192.8	2.5
110°-120°	326.9	4.2
120°-130°	430.4	5.5
130°-140°	482.3	6.2
140°-150°	472.7	6.0
150°-160°	397.1	5.1
160°-170°	264.0	3.4
170°-180°	92.4	1.2
0°-30°	1481.4	18.9
0°-40°	2383.0	30.4
0°-60°	4083.2	52.1
0°-90°	5112.5	65.2
90°-120°	584.6	7.5
90°-150°	1970.1	25.1
90°-180°	2723.0	34.7
0°-180°	7836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1961	1958	1942	1956	1954	186
15°	1869	1864	1847	1855	1855	527
25°	1696	1689	1668	1672	1667	781
35°	1465	1459	1437	1429	1417	916
45°	1199	1193	1174	1156	1151	924
55°	914	909	887	873	862	815
65°	617	614	597	583	576	612
75°	328	325	317	312	306	349
85°	85	87	87	85	82	94
90°	1	7	12	16	18	9
95°	49	51	58	64	65	52
105°	173	177	182	186	188	185
115°	327	330	332	331	330	324
125°	478	482	483	482	481	428
135°	621	626	626	626	624	479
145°	753	756	758	758	756	470
155°	861	861	862	865	861	397
165°	936	935	936	939	934	264
175°	974	970	970	975	970	93
180°	976	976	976	976	976	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1969.9	1965.2	1949.7	1965.2	1963.7
5°	1960.6	1957.5	1941.9	1955.9	1954.4
7.5°	1946.6	1943.5	1926.4	1940.4	1938.8
10°	1926.4	1923.3	1906.2	1918.6	1917.1
12.5°	1901.5	1895.3	1879.8	1889.1	1889.1
15°	1868.9	1864.3	1847.2	1854.9	1854.9
17.5°	1834.7	1827.0	1809.9	1819.2	1811.4
20°	1789.7	1786.6	1766.4	1777.3	1769.5
22.5°	1744.6	1738.4	1719.8	1726.0	1721.3
25°	1696.5	1688.7	1668.5	1671.6	1667.0
27.5°	1640.6	1635.9	1615.7	1617.2	1612.6
30°	1586.2	1581.5	1558.2	1555.1	1550.4
32.5°	1527.1	1519.4	1499.2	1493.0	1483.6
35°	1465.0	1458.8	1437.0	1429.3	1416.8
37.5°	1401.3	1393.5	1373.3	1362.5	1354.7
40°	1336.1	1328.3	1306.5	1292.6	1287.9
42.5°	1266.1	1259.9	1238.2	1225.8	1218.0
45°	1199.3	1193.1	1174.5	1155.8	1151.2
47.5°	1126.3	1127.9	1104.6	1085.9	1075.1
50°	1056.4	1051.8	1033.1	1012.9	1002.0
52.5°	985.0	981.8	961.6	944.6	932.1
55°	913.5	908.8	887.1	873.1	862.2
57.5°	837.4	835.8	817.2	798.5	793.9
60°	765.9	759.7	742.6	727.1	716.2
62.5°	691.3	686.7	672.7	655.6	647.8
65°	616.8	613.7	596.6	582.6	576.4
67.5°	543.7	537.5	525.1	512.7	509.6
70°	475.4	467.6	453.6	444.3	438.1
72.5°	400.8	396.2	388.4	377.5	371.3
75°	327.8	324.7	316.9	312.3	306.0
77.5°	259.4	257.9	253.2	250.1	245.5
80°	195.7	195.7	192.6	191.1	188.0
82.5°	139.8	136.7	136.7	133.6	133.6
85°	85.4	87.0	87.0	85.4	82.3
87.5°	41.9	41.9	40.4	40.4	37.3
90°	0.8	6.8	12.2	15.9	18.2
92.5°	22.8	26.6	33.4	38.7	40.2
95°	49.4	50.9	58.5	63.8	65.3
97.5°	75.9	76.7	87.3	91.9	92.6
100°	106.3	106.3	116.2	123.0	124.5
102.5°	139.0	142.8	146.6	154.2	156.4
105°	173.1	176.9	181.5	186.1	188.3
107.5°	210.4	214.2	217.9	220.2	220.2
110°	249.1	252.9	255.2	257.4	256.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	290.1	293.1	293.9	292.4
115°	327.3	330.3	331.9	331.1	330.3
117.5°	366.8	367.6	369.1	369.8	366.8
120°	403.2	407.0	407.8	407.8	404.8
122.5°	442.7	443.5	445.8	445.0	442.7
125°	477.7	482.2	483.0	481.5	480.7
127.5°	516.4	518.7	519.4	518.7	517.2
130°	550.6	554.4	555.9	555.1	553.6
132.5°	584.7	591.6	590.8	590.1	587.8
135°	621.2	625.8	626.5	626.5	623.5
137.5°	655.4	659.9	661.4	662.2	658.4
140°	688.0	691.8	694.1	695.6	691.8
142.5°	720.7	723.7	726.8	727.5	723.7
145°	752.6	755.6	757.9	757.9	755.6
147.5°	782.2	784.5	786.0	788.3	782.2
150°	811.8	811.0	814.1	814.1	812.6
152.5°	836.1	837.6	838.4	840.7	837.6
155°	861.2	861.2	861.9	865.0	861.2
157.5°	883.9	882.4	883.2	886.2	880.9
160°	903.7	901.4	902.2	905.2	901.4
162.5°	921.2	919.6	919.6	923.4	918.9
165°	936.3	934.8	935.6	938.6	934.1
167.5°	950.0	947.0	947.0	951.5	947.0
170°	960.6	957.6	957.6	962.2	956.9
172.5°	968.2	965.2	965.2	969.8	965.2
175°	973.6	970.5	970.5	975.1	969.8
177.5°	977.4	974.3	973.6	978.1	972.8
180°	975.8	975.8	975.8	975.8	975.8

(END OF REPORT)