

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: P1027722

Luminaire Tested: S125DIP-B1270D850UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027722
REPORT IS A COMBINATION OF REPORTS P1001790 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB30-4F0-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

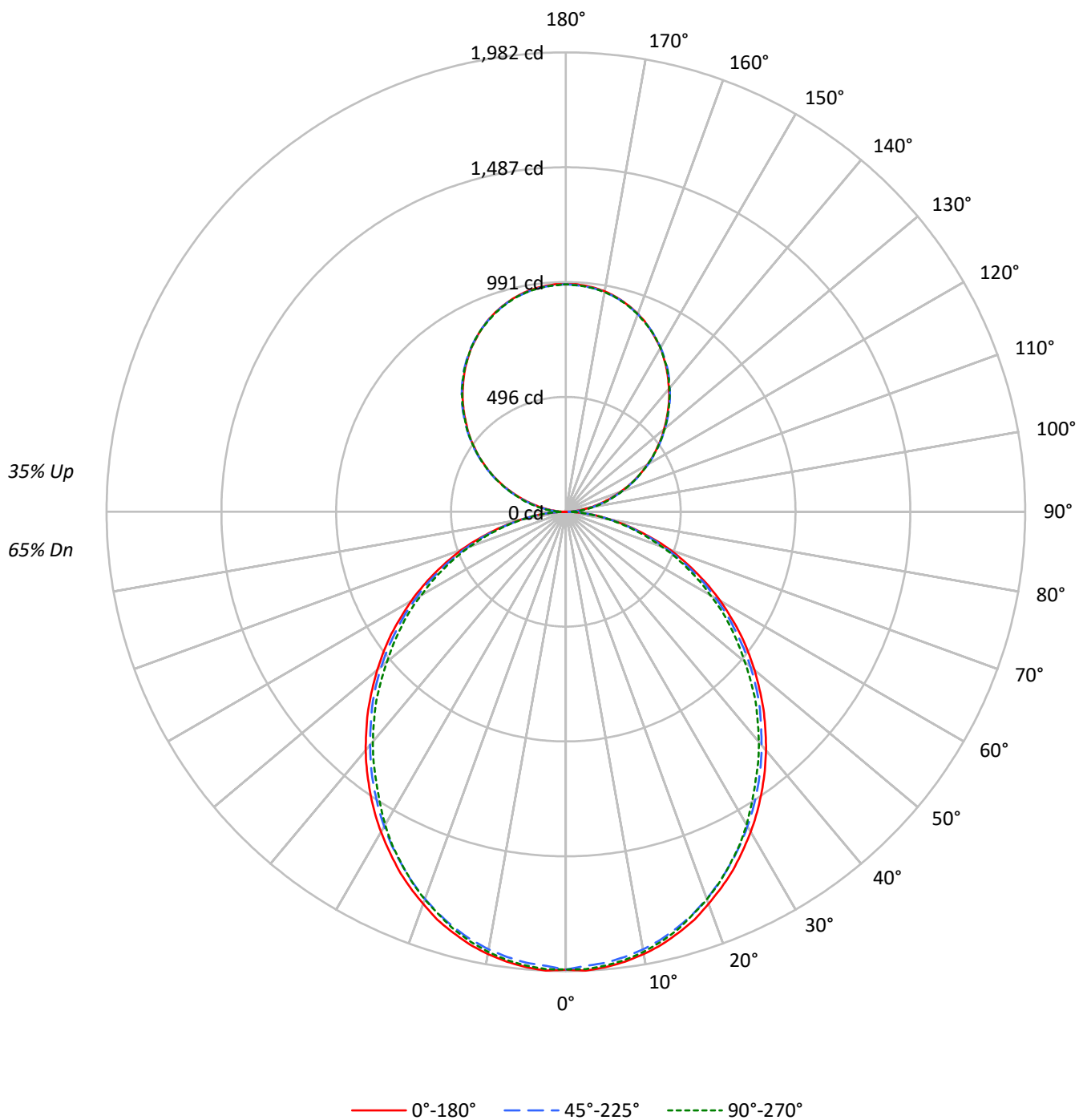
Lumens per Lamp: N/A
Luminaire Lumens: 7881.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	12655	12655	12655
5°	12656	12362	12385
10°	12551	12078	12040
15°	12387	11739	11634
20°	12164	11346	11168
25°	11924	10918	10669
30°	11636	10471	10143
35°	11328	10003	9554
40°	11009	9508	9031
45°	10665	9026	8474
50°	10285	8479	7826
55°	9911	7875	7230
60°	9462	7239	6536
65°	8927	6503	5819
70°	8382	5657	4991
75°	7465	4658	4035
80°	6363	3480	2969
85°	4911	2057	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.4
10°-20°	526.5	6.7
20°-30°	777.2	9.9
30°-40°	906.8	11.5
40°-50°	910.8	11.6
50°-60°	799.5	10.1
60°-70°	595.5	7.6
70°-80°	340.1	4.3
80°-90°	99.7	1.3
90°-100°	65.2	0.8
100°-110°	193.8	2.5
110°-120°	328.7	4.2
120°-130°	432.8	5.5
130°-140°	485.0	6.2
140°-150°	475.3	6.0
150°-160°	399.3	5.1
160°-170°	265.4	3.4
170°-180°	92.9	1.2
0°-30°	1490.1	18.9
0°-40°	2396.9	30.4
0°-60°	4107.2	52.1
0°-90°	5142.5	65.3
90°-120°	587.8	7.5
90°-150°	1980.9	25.1
90°-180°	2738.0	34.7
0°-180°	7881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1972	1969	1953	1967	1966	187
15°	1880	1875	1858	1866	1866	530
25°	1706	1699	1678	1681	1677	785
35°	1474	1467	1446	1438	1425	922
45°	1206	1200	1181	1163	1158	929
55°	919	914	892	878	867	820
65°	620	617	600	586	580	615
75°	330	327	319	314	308	351
85°	86	88	88	86	83	94
90°	1	7	12	16	18	9
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°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1981.5	1976.8	1961.2	1976.8	1975.2
5°	1972.1	1969.0	1953.3	1967.4	1965.8
7.5°	1958.0	1954.9	1937.7	1951.8	1950.2
10°	1937.7	1934.6	1917.4	1929.9	1928.3
12.5°	1912.7	1906.5	1890.8	1900.2	1900.2
15°	1879.9	1875.2	1858.0	1865.8	1865.8
17.5°	1845.5	1837.7	1820.5	1829.9	1822.1
20°	1800.2	1797.1	1776.8	1787.7	1779.9
22.5°	1754.9	1748.6	1729.9	1736.1	1731.4
25°	1706.4	1698.6	1678.3	1681.4	1676.7
27.5°	1650.2	1645.5	1625.2	1626.7	1622.1
30°	1595.5	1590.8	1567.4	1564.2	1559.5
32.5°	1536.1	1528.3	1508.0	1501.7	1492.4
35°	1473.6	1467.3	1445.5	1437.7	1425.2
37.5°	1409.5	1401.7	1381.4	1370.5	1362.6
40°	1343.9	1336.1	1314.2	1300.1	1295.5
42.5°	1273.6	1267.3	1245.4	1232.9	1225.1
45°	1206.4	1200.1	1181.4	1162.6	1157.9
47.5°	1132.9	1134.5	1111.1	1092.3	1081.4
50°	1062.6	1057.9	1039.2	1018.9	1007.9
52.5°	990.7	987.6	967.3	950.1	937.6
55°	918.9	914.2	892.3	878.2	867.3
57.5°	842.3	840.7	822.0	803.2	798.5
60°	770.4	764.1	747.0	731.3	720.4
62.5°	695.4	690.7	676.6	659.4	651.6
65°	620.4	617.3	600.1	586.0	579.8
67.5°	546.9	540.7	528.2	515.7	512.6
70°	478.2	470.4	456.3	446.9	440.7
72.5°	403.2	398.5	390.7	379.7	373.5
75°	329.7	326.6	318.8	314.1	307.8
77.5°	261.0	259.4	254.7	251.6	246.9
80°	196.9	196.9	193.8	192.2	189.1
82.5°	140.6	137.5	137.5	134.4	134.4
85°	85.9	87.5	87.5	85.9	82.8
87.5°	42.2	42.2	40.6	40.6	37.5
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)