

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: P1027732

Luminaire Tested: S125DIP-B1270D850UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027732
REPORT IS A COMBINATION OF REPORTS P1001800 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

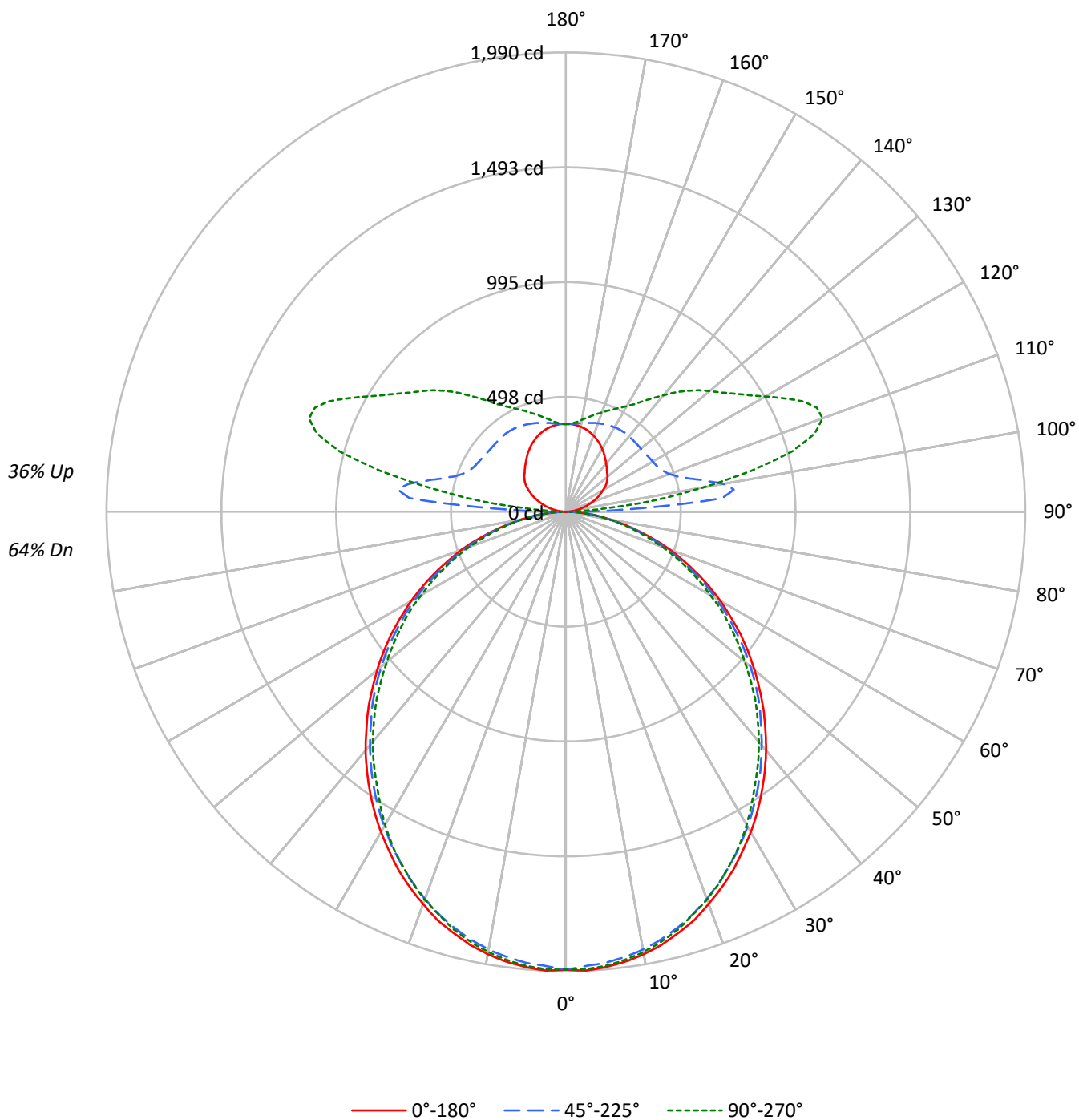
Lumens per Lamp: N/A
Luminaire Lumens: 8027.9 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	91	91	91	80	80	80	69	69	69
1	101	96	92	89	95	91	87	84	80	77	75	70	68	66	61	60	58
2	92	84	78	73	86	79	74	69	70	66	62	62	58	55	54	51	49
3	84	74	66	60	78	70	63	58	62	57	52	54	50	47	48	44	42
4	77	66	57	51	72	62	55	49	55	49	44	49	44	40	43	39	36
5	70	59	50	44	66	55	48	42	49	43	38	44	39	35	38	34	31
6	65	53	44	38	61	50	42	37	44	38	34	39	34	31	35	31	28
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12710	12710	12710
5°	12710	12415	12439
10°	12605	12130	12092
15°	12439	11790	11684
20°	12216	11395	11216
25°	11975	10964	10715
30°	11686	10516	10187
35°	11376	10046	9595
40°	11056	9548	9069
45°	10710	9064	8511
50°	10330	8515	7859
55°	9953	7909	7261
60°	9503	7270	6564
65°	8964	6530	5843
70°	8417	5681	5012
75°	7497	4677	4053
80°	6389	3494	2981
85°	4934	2067	1644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10710 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.3
10°-20°	528.7	6.6
20°-30°	780.6	9.7
30°-40°	910.7	11.3
40°-50°	914.7	11.4
50°-60°	802.9	10.0
60°-70°	598.0	7.4
70°-80°	341.6	4.3
80°-90°	100.1	1.2
90°-100°	286.5	3.6
100°-110°	595.1	7.4
110°-120°	555.8	6.9
120°-130°	449.8	5.6
130°-140°	361.4	4.5
140°-150°	272.8	3.4
150°-160°	192.1	2.4
160°-170°	113.2	1.4
170°-180°	36.8	0.5
0°-30°	1496.5	18.6
0°-40°	2407.2	30.0
0°-60°	4124.8	51.4
0°-90°	5164.5	64.3
90°-120°	1437.4	17.9
90°-150°	2521.3	31.4
90°-180°	2863.0	35.7
0°-180°	8027.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1980	1977	1962	1976	1974	188
15°	1888	1883	1866	1874	1874	532
25°	1714	1706	1686	1689	1684	789
35°	1480	1474	1452	1444	1431	926
45°	1212	1205	1186	1168	1163	933
55°	923	918	896	882	871	824
65°	623	620	603	588	582	618
75°	331	328	320	315	309	353
85°	86	88	88	86	83	95
90°	1	7	12	16	18	8
95°	25	75	680	308	180	26
105°	87	121	556	1095	1016	91
115°	155	187	446	962	1132	153
125°	215	252	428	766	892	191
135°	252	302	425	642	741	195
145°	293	336	426	531	584	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.7	1983.7	1983.7	1983.7	1983.7
2.5°	1989.9	1985.2	1969.5	1985.2	1983.7
5°	1980.5	1977.4	1961.7	1975.8	1974.3
7.5°	1966.4	1963.3	1946.0	1960.1	1958.6
10°	1946.0	1942.9	1925.6	1938.2	1936.6
12.5°	1920.9	1914.6	1898.9	1908.3	1908.3
15°	1887.9	1883.2	1866.0	1873.8	1873.8
17.5°	1853.4	1845.6	1828.3	1837.7	1829.9
20°	1807.9	1804.8	1784.4	1795.3	1787.5
22.5°	1762.4	1756.1	1737.3	1743.6	1738.8
25°	1713.7	1705.9	1685.5	1688.6	1683.9
27.5°	1657.2	1652.5	1632.1	1633.7	1629.0
30°	1602.3	1597.6	1574.1	1570.9	1566.2
32.5°	1542.7	1534.8	1514.4	1508.2	1498.7
35°	1479.9	1473.6	1451.7	1443.8	1431.3
37.5°	1415.6	1407.7	1387.3	1376.3	1368.5
40°	1349.6	1341.8	1319.8	1305.7	1301.0
42.5°	1279.0	1272.7	1250.8	1238.2	1230.4
45°	1211.5	1205.3	1186.4	1167.6	1162.9
47.5°	1137.8	1139.4	1115.8	1097.0	1086.0
50°	1067.2	1062.5	1043.6	1023.2	1012.2
52.5°	995.0	991.8	971.4	954.2	941.6
55°	922.8	918.1	896.1	882.0	871.0
57.5°	845.9	844.3	825.5	806.6	801.9
60°	773.7	767.4	750.2	734.5	723.5
62.5°	698.4	693.7	679.5	662.3	654.4
65°	623.0	619.9	602.6	588.5	582.2
67.5°	549.3	543.0	530.4	517.9	514.7
70°	480.2	472.4	458.3	448.8	442.6
72.5°	404.9	400.2	392.3	381.4	375.1
75°	331.1	328.0	320.1	315.4	309.2
77.5°	262.1	260.5	255.8	252.7	248.0
80°	197.7	197.7	194.6	193.0	189.9
82.5°	141.2	138.1	138.1	135.0	135.0
85°	86.3	87.9	87.9	86.3	83.2
87.5°	42.4	42.4	40.8	40.8	37.7
90°	0.8	6.9	12.3	16.1	17.6
92.5°	11.5	62.9	306.0	81.7	56.8
95°	25.3	74.8	679.6	308.4	180.2
97.5°	39.1	80.9	734.0	556.8	395.0
100°	53.7	92.8	692.6	787.0	598.3
102.5°	69.8	106.2	619.8	981.8	825.3
105°	86.7	121.2	556.1	1094.9	1016.3
107.5°	102.8	136.9	508.5	1126.8	1131.4
110°	120.4	153.4	477.1	1096.5	1183.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.1	169.9	458.7	1033.2	1177.4
115°	154.9	186.8	446.4	962.2	1132.1
117.5°	170.3	204.0	439.5	897.8	1063.9
120°	185.6	220.5	434.9	843.8	997.9
122.5°	201.7	236.6	431.1	800.3	939.6
125°	214.8	251.6	428.0	765.5	892.0
127.5°	225.5	266.2	426.5	735.6	848.3
130°	235.5	280.0	424.9	705.2	813.8
132.5°	243.1	292.2	424.9	672.7	779.3
135°	251.6	302.5	424.9	641.6	740.9
137.5°	262.3	312.2	425.7	609.0	701.1
140°	271.5	320.2	426.5	579.1	658.9
142.5°	282.3	327.9	427.2	553.4	619.8
145°	293.0	335.5	426.5	531.2	584.5
147.5°	304.5	342.4	424.9	512.0	553.0
150°	314.5	348.6	422.6	496.3	527.7
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)