

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: P1027730

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027730
REPORT IS A COMBINATION OF REPORTS P1001798 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-F
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

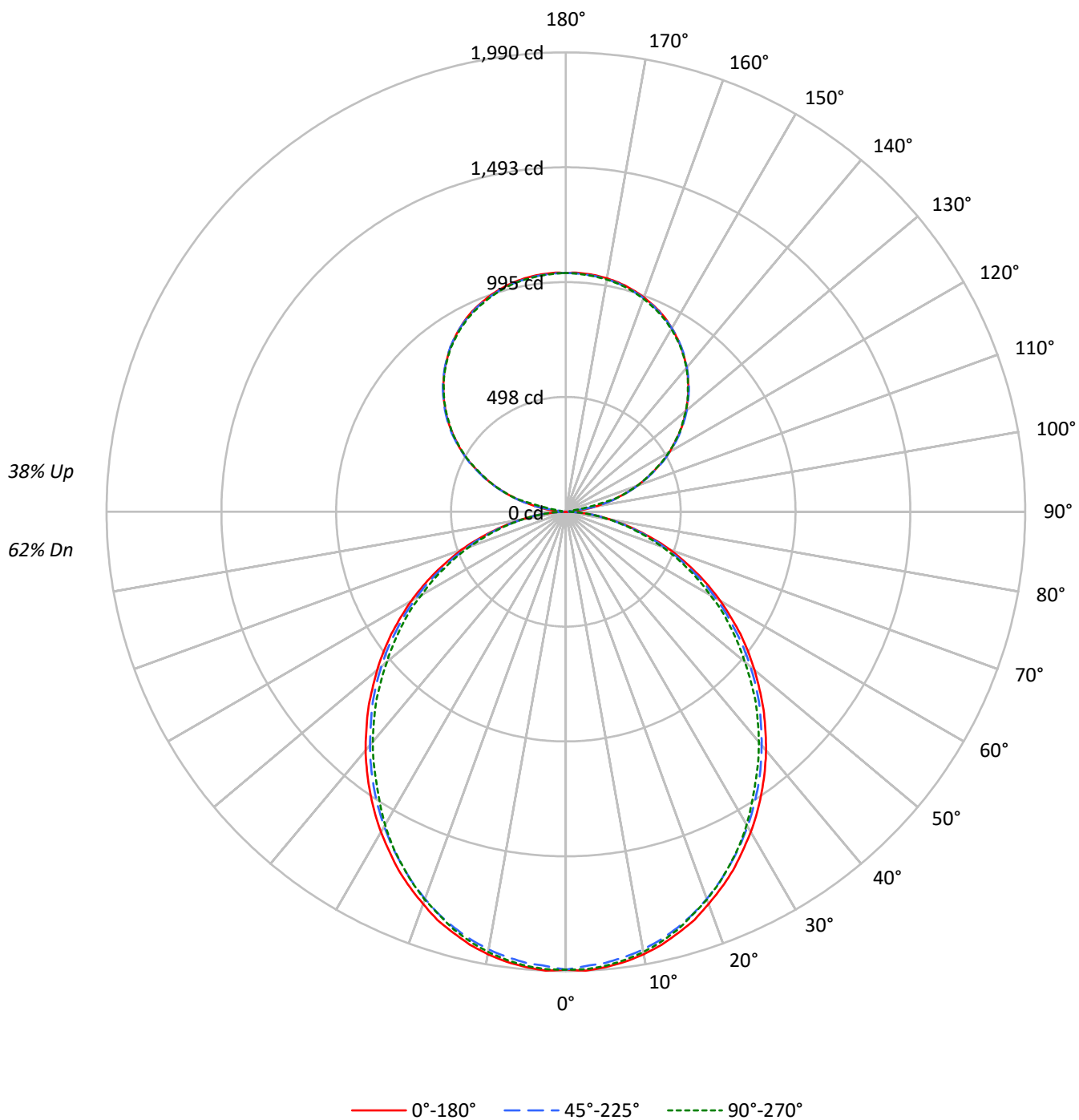
Lumens per Lamp: N/A
Luminaire Lumens: 8343.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	57
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	48
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	38	35
5	70	58	50	44	65	55	47	42	48	42	38	43	38	34	37	33	30
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	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	2.2
10°-20°	528.7	6.3
20°-30°	780.6	9.4
30°-40°	910.7	10.9
40°-50°	914.7	11.0
50°-60°	802.9	9.6
60°-70°	598.0	7.2
70°-80°	341.6	4.1
80°-90°	100.1	1.2
90°-100°	35.1	0.4
100°-110°	233.5	2.8
110°-120°	420.5	5.0
120°-130°	539.8	6.5
130°-140°	580.6	7.0
140°-150°	544.9	6.5
150°-160°	440.7	5.3
160°-170°	285.0	3.4
170°-180°	98.3	1.2
0°-30°	1496.5	17.9
0°-40°	2407.2	28.9
0°-60°	4124.8	49.4
0°-90°	5164.5	61.9
90°-120°	689.2	8.3
90°-150°	2354.4	28.2
90°-180°	3178.0	38.1
0°-180°	8343.0	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°	44	41	12	16	16	54
105°	226	229	229	229	228	239
115°	423	427	428	425	420	420
125°	602	608	608	604	602	538
135°	751	756	754	752	748	579
145°	871	872	872	873	868	544
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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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	18.4
92.5°	14.6	7.7	12.3	16.1	16.9
95°	43.7	41.4	12.3	16.1	16.1
97.5°	82.1	86.7	13.8	15.3	16.1
100°	128.1	130.4	133.5	19.2	16.1
102.5°	174.9	178.0	179.5	181.0	116.6
105°	225.5	228.6	228.6	228.6	227.8
107.5°	277.7	277.7	279.2	280.0	276.9
110°	328.3	328.3	329.8	327.5	328.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.8	378.1	378.9	375.8	374.3
115°	423.4	427.2	428.0	424.9	420.3
117.5°	473.3	473.3	476.3	471.7	470.2
120°	519.3	518.5	520.8	519.3	515.4
122.5°	559.9	563.8	564.5	563.0	558.4
125°	602.1	607.5	607.5	604.4	602.1
127.5°	642.8	646.6	645.8	644.3	638.2
130°	679.6	683.4	684.2	681.9	678.1
132.5°	716.4	721.0	718.7	718.7	714.9
135°	750.9	755.5	754.0	752.5	747.9
137.5°	783.1	787.7	786.2	786.2	782.4
140°	814.6	816.1	815.4	816.9	812.3
142.5°	843.0	843.7	845.3	845.3	840.7
145°	870.6	872.1	872.1	872.9	868.3
147.5°	895.1	895.1	895.9	896.7	891.3
150°	918.1	916.6	918.1	919.7	913.5
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)