

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: P1035571

Luminaire Tested: S125DIW-B850D1340UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035571
REPORT IS A COMBINATION OF REPORTS P1004147 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

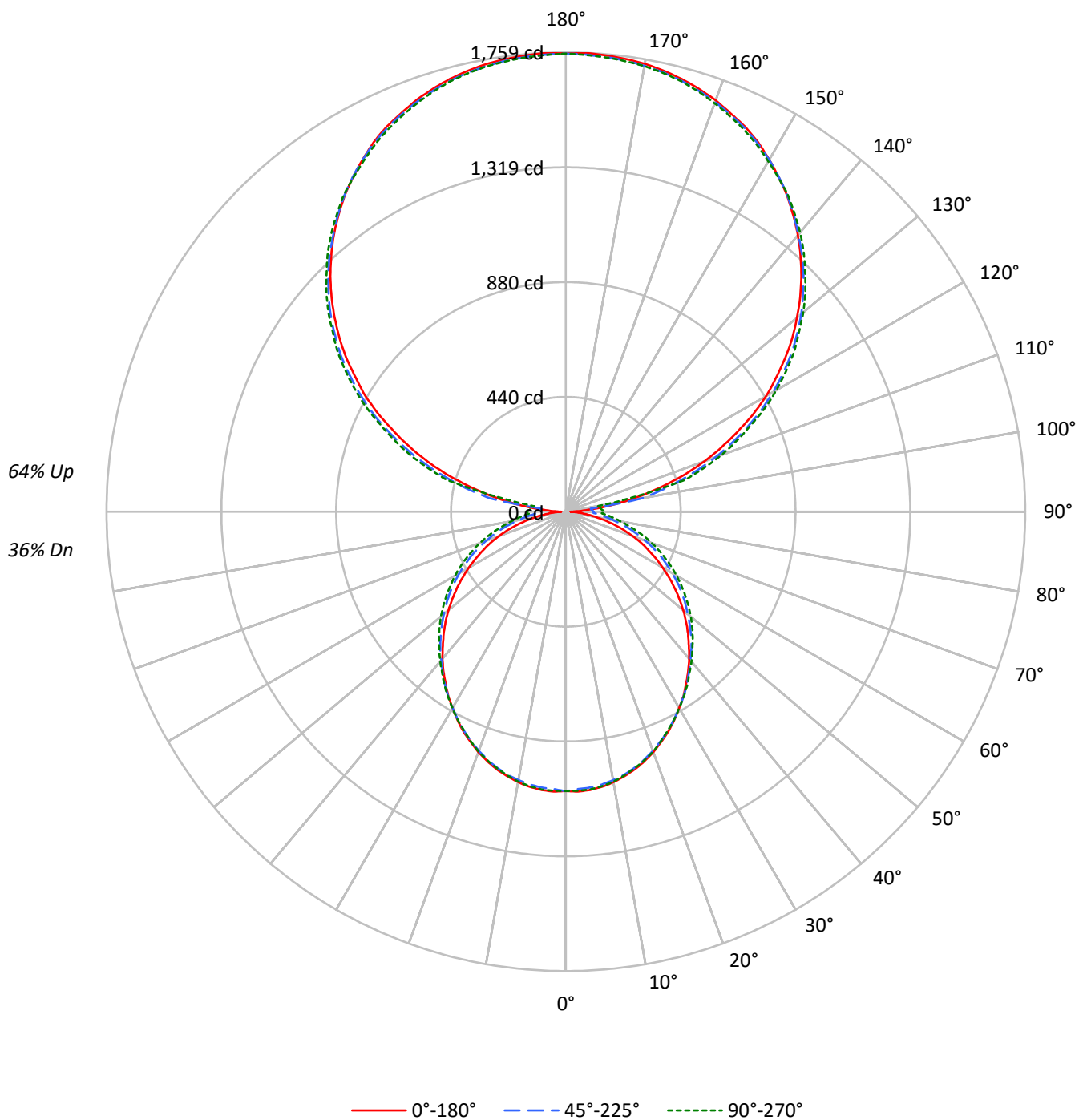
Lumens per Lamp: N/A
Luminaire Lumens: 8706.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	94	90	86	82	85	81	78	75	65	63	61	51	49	48	37	36	35
2	85	78	72	66	77	71	65	61	57	53	50	44	42	39	32	31	29
3	78	68	61	55	70	62	56	50	50	45	42	39	36	33	29	26	25
4	71	60	52	46	64	55	48	43	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	49	42	36	39	34	30	31	27	24	23	20	18
6	60	48	40	34	54	44	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	36	29	24	29	24	20	23	19	16	17	15	13
9	48	35	28	23	43	32	26	21	27	22	18	21	17	15	16	13	11
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.2
10°-20°	287.3	3.3
20°-30°	427.2	4.9
30°-40°	505.9	5.8
40°-50°	523.1	6.0
50°-60°	481.9	5.5
60°-70°	389.5	4.5
70°-80°	260.6	3.0
80°-90°	137.3	1.6
90°-100°	135.4	1.6
100°-110°	452.0	5.2
110°-120°	750.7	8.6
120°-130°	936.6	10.8
130°-140°	993.8	11.4
140°-150°	925.9	10.6
150°-160°	747.5	8.6
160°-170°	483.4	5.6
170°-180°	166.7	1.9
0°-30°	815.7	9.4
0°-40°	1321.6	15.2
0°-60°	2326.6	26.7
0°-90°	3114.0	35.8
90°-120°	1338.0	15.4
90°-150°	4194.4	48.2
90°-180°	5592.0	64.2
0°-180°	8706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	62	107	137	149	15
95°	88	111	97	127	134	102
105°	392	414	445	466	472	415
115°	724	738	767	780	779	718
125°	1025	1033	1054	1066	1067	916
135°	1276	1282	1287	1298	1296	983
145°	1477	1479	1479	1486	1482	924
155°	1626	1618	1621	1625	1614	749
165°	1716	1708	1709	1717	1707	485
175°	1755	1747	1748	1759	1747	167
180°	1755	1755	1755	1755	1755	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	18.1	62.0	106.8	137.4	148.6
92.5°	39.4	58.1	102.6	132.1	140.8
95°	87.7	111.1	97.3	126.9	134.2
97.5°	151.8	184.7	95.7	120.4	129.0
100°	228.7	254.7	293.4	121.6	122.7
102.5°	307.1	332.2	367.3	390.9	287.9
105°	391.8	413.8	445.3	466.2	472.3
107.5°	479.3	494.0	527.0	549.2	550.3
110°	564.1	576.7	608.7	624.7	633.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	644.7	658.1	687.7	701.4	706.1
115°	724.4	738.2	766.8	780.5	778.9
117.5°	807.8	813.1	844.5	854.5	859.3
120°	885.9	887.8	915.8	931.0	930.8
122.5°	953.8	961.3	985.7	999.9	998.4
125°	1025.3	1033.4	1054.4	1065.9	1067.2
127.5°	1093.2	1098.7	1115.2	1128.3	1124.2
130°	1155.6	1161.1	1177.1	1187.9	1186.6
132.5°	1217.1	1224.9	1231.5	1246.2	1243.9
135°	1275.6	1282.3	1287.1	1298.1	1295.6
137.5°	1330.2	1336.9	1338.5	1351.1	1348.8
140°	1382.5	1385.1	1384.9	1399.0	1395.4
142.5°	1430.6	1430.9	1433.5	1442.9	1439.3
145°	1477.4	1479.0	1479.0	1485.5	1481.9
147.5°	1518.1	1518.1	1519.4	1522.8	1515.8
150°	1557.1	1554.5	1557.1	1559.7	1550.3
152.5°	1594.8	1588.3	1590.9	1593.5	1584.4
155°	1626.0	1618.2	1620.8	1624.7	1614.3
157.5°	1650.7	1646.8	1646.8	1650.7	1640.3
160°	1676.8	1669.0	1670.3	1675.5	1665.1
162.5°	1697.6	1689.8	1691.1	1698.9	1687.2
165°	1715.8	1708.0	1709.3	1717.1	1706.7
167.5°	1730.1	1722.3	1723.6	1732.7	1721.0
170°	1741.8	1732.7	1734.0	1744.4	1732.7
172.5°	1749.6	1740.5	1743.1	1752.2	1740.5
175°	1754.8	1747.0	1748.3	1758.7	1747.0
177.5°	1758.7	1750.9	1752.2	1761.3	1750.9
180°	1754.8	1754.8	1754.8	1754.8	1754.8

(END OF REPORT)