

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: P1035572

Luminaire Tested: S125DIW-B850D1340UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035572
REPORT IS A COMBINATION OF REPORTS P1004148 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1340UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

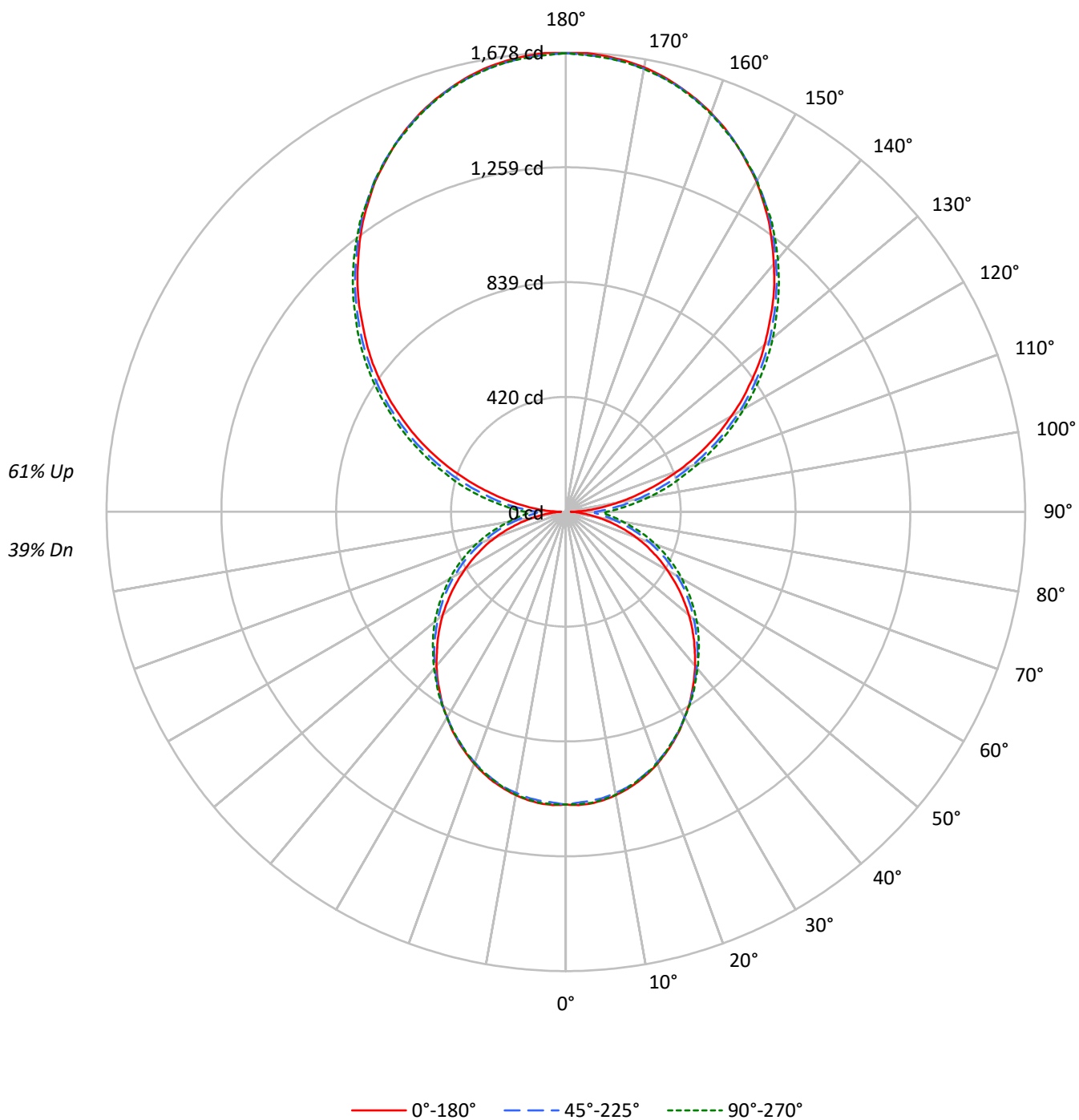
Lumens per Lamp: N/A
Luminaire Lumens: 7989.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39		
1	95	90	86	83	86	82	79	75	67	64	62	53	51	49	40	39	38	32		
2	86	78	72	67	78	71	66	61	58	54	51	46	43	41	35	33	31	26		
3	78	69	61	55	71	63	56	51	51	46	43	40	37	34	30	28	26	22		
4	71	61	53	47	65	55	48	43	45	40	36	36	32	29	27	25	23	19		
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16		
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17	14		
7	56	43	35	30	50	40	33	28	33	27	23	26	22	19	20	17	15	12		
8	52	39	32	26	47	36	29	24	30	24	21	24	20	17	18	16	14	11		
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10		
10	45	33	26	21	41	30	24	19	25	20	17	20	16	14	16	13	11	9		

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	1.3
10°-20°	287.3	3.6
20°-30°	427.2	5.3
30°-40°	505.9	6.3
40°-50°	523.1	6.5
50°-60°	481.9	6.0
60°-70°	389.5	4.9
70°-80°	260.6	3.3
80°-90°	137.3	1.7
90°-100°	187.2	2.3
100°-110°	386.8	4.8
110°-120°	598.6	7.5
120°-130°	759.9	9.5
130°-140°	837.1	10.5
140°-150°	813.2	10.2
150°-160°	681.5	8.5
160°-170°	453.0	5.7
170°-180°	158.5	2.0
0°-30°	815.7	10.2
0°-40°	1321.6	16.5
0°-60°	2326.6	29.1
0°-90°	3114.0	39.0
90°-120°	1172.6	14.7
90°-150°	3582.8	44.8
90°-180°	4876.0	61.0
0°-180°	7989.9	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	138	149	17
95°	98	128	177	209	219	99
105°	307	330	369	398	409	327
115°	568	581	610	628	633	562
125°	824	831	853	867	871	738
135°	1068	1075	1084	1097	1097	823
145°	1293	1297	1301	1306	1306	808
155°	1478	1478	1479	1485	1478	681
165°	1607	1604	1606	1611	1603	453
175°	1671	1666	1666	1674	1664	159
180°	1675	1675	1675	1675	1675	

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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	106.9	137.5	148.7
92.5°	53.8	90.7	139.1	171.3	181.3
95°	98.3	128.2	176.9	209.1	219.0
97.5°	142.9	169.3	222.2	252.1	260.7
100°	194.0	216.1	266.5	300.2	309.2
102.5°	249.0	275.4	314.5	348.5	358.7
105°	306.6	329.9	369.2	397.9	409.2
107.5°	369.4	390.7	427.6	452.4	458.7
110°	434.8	453.9	487.2	511.0	517.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.6	514.7	548.2	568.4	573.1
115°	568.1	580.6	610.5	628.1	633.1
117.5°	634.7	641.3	670.1	689.3	691.4
120°	697.3	707.0	732.4	750.2	751.3
122.5°	764.1	766.4	793.4	808.9	811.3
125°	824.0	830.8	853.1	867.3	871.1
127.5°	889.4	892.3	911.4	925.8	929.5
130°	948.1	953.6	970.9	984.3	986.9
132.5°	1005.7	1017.4	1026.6	1040.0	1040.3
135°	1068.3	1075.0	1083.7	1097.3	1097.4
137.5°	1126.9	1133.6	1140.5	1154.4	1152.0
140°	1181.9	1188.4	1193.4	1207.5	1205.2
142.5°	1237.9	1242.1	1247.3	1258.0	1255.7
145°	1292.7	1296.9	1300.8	1306.0	1306.3
147.5°	1342.5	1346.4	1349.0	1355.0	1346.7
150°	1393.3	1392.0	1397.2	1397.2	1395.6
152.5°	1435.0	1437.6	1438.9	1442.9	1437.6
155°	1478.0	1478.0	1479.3	1484.6	1478.0
157.5°	1517.1	1514.5	1515.8	1521.1	1511.9
160°	1551.0	1547.1	1548.4	1553.6	1547.1
162.5°	1581.0	1578.4	1578.4	1584.9	1577.1
165°	1607.1	1604.5	1605.8	1611.0	1603.2
167.5°	1630.5	1625.3	1625.3	1633.1	1625.3
170°	1648.8	1643.6	1643.6	1651.4	1642.3
172.5°	1661.8	1656.6	1656.6	1664.4	1656.6
175°	1670.9	1665.7	1665.7	1673.6	1664.4
177.5°	1677.5	1672.3	1670.9	1678.8	1669.6
180°	1674.9	1674.9	1674.9	1674.9	1674.9

(END OF REPORT)