

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: P1034622

Luminaire Tested: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034622
REPORT IS A COMBINATION OF REPORTS P1004059 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

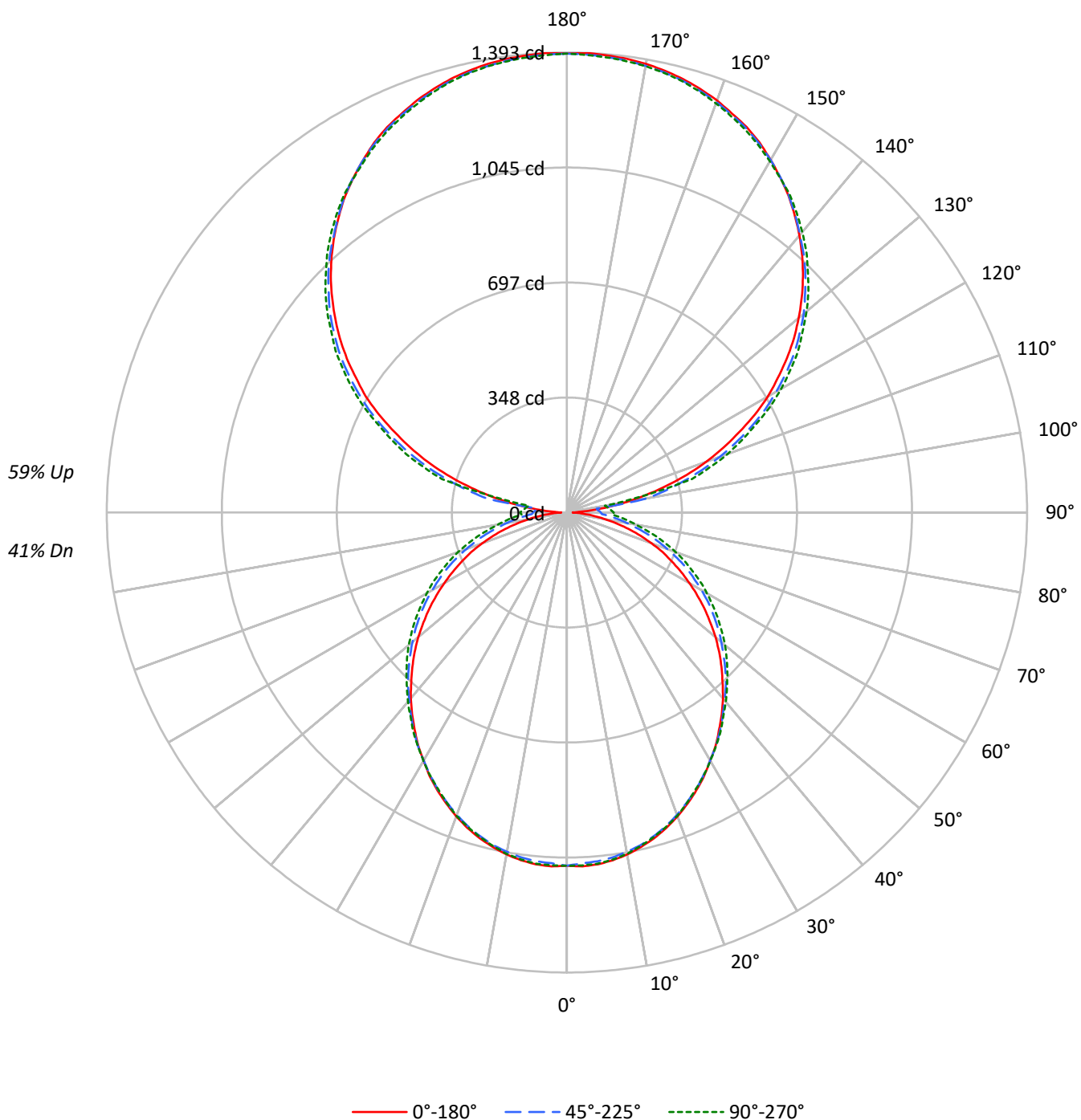
Lumens per Lamp: N/A
Luminaire Lumens: 7583.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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

TEST NUMBER: P1034622

CATALOG NUMBER: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_3500K

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48			41
1	95	91	87	83	87	83	79	76	68	65	63	54	52	51	41	40	39			33
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	36	34	33			27
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27			23
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	23			20
5	66	54	46	40	60	50	42	37	41	35	31	33	29	26	25	23	20			17
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18			15
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16			13
8	52	39	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14			12
9	48	36	29	23	44	33	26	22	28	22	19	23	19	16	18	15	13			10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	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

TEST NUMBER: P1034622

CATALOG NUMBER: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.3
10°-20°	287.3	3.8
20°-30°	427.2	5.6
30°-40°	505.9	6.7
40°-50°	523.1	6.9
50°-60°	481.9	6.4
60°-70°	389.5	5.1
70°-80°	260.6	3.4
80°-90°	136.8	1.8
90°-100°	123.0	1.6
100°-110°	369.6	4.9
110°-120°	602.2	7.9
120°-130°	746.2	9.8
130°-140°	789.0	10.4
140°-150°	733.6	9.7
150°-160°	592.0	7.8
160°-170°	382.8	5.0
170°-180°	132.0	1.7
0°-30°	815.7	10.8
0°-40°	1321.6	17.4
0°-60°	2326.6	30.7
0°-90°	3113.5	41.1
90°-120°	1094.9	14.4
90°-150°	3363.7	44.4
90°-180°	4470.0	58.9
0°-180°	7583.9	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	60	102	132	142	15
95°	72	96	93	121	128	83
105°	312	333	365	386	392	331
115°	575	587	616	630	631	570
125°	813	819	840	853	855	726
135°	1011	1016	1021	1033	1032	779
145°	1170	1171	1171	1178	1176	732
155°	1288	1282	1284	1287	1278	593
165°	1359	1353	1354	1360	1352	384
175°	1390	1384	1385	1393	1384	132
180°	1390	1390	1390	1390	1390	

TEST NUMBER: P1034622

CATALOG NUMBER: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_3500K

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°	17.8	59.6	102.5	131.7	142.1
92.5°	34.3	55.4	98.3	126.4	134.9
95°	72.3	96.5	93.0	121.2	128.5
97.5°	122.8	154.1	90.8	115.0	123.3
100°	183.5	208.7	246.4	114.9	117.0
102.5°	245.4	269.4	304.0	327.0	246.8
105°	312.3	333.2	364.7	385.6	392.0
107.5°	381.3	396.0	428.5	450.4	452.6
110°	448.2	460.8	492.3	509.1	517.4

TEST NUMBER: P1034622

CATALOG NUMBER: S125DIW-B850D1050UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	512.1	524.7	554.0	568.8	574.0
115°	575.0	587.4	615.7	630.5	630.6
117.5°	640.8	646.1	676.4	688.1	693.4
120°	702.6	704.8	732.0	747.7	748.9
122.5°	756.2	762.4	786.5	801.3	801.4
125°	812.9	819.0	840.0	852.7	854.8
127.5°	866.4	870.5	887.3	901.0	899.0
130°	915.8	920.0	935.7	947.3	947.4
132.5°	964.3	970.5	977.9	992.6	991.6
135°	1010.7	1015.7	1021.1	1032.6	1031.7
137.5°	1053.9	1059.0	1061.1	1073.7	1072.8
140°	1095.1	1097.1	1097.2	1110.8	1108.8
142.5°	1133.2	1133.2	1135.3	1144.7	1142.7
145°	1170.3	1171.3	1171.3	1177.6	1175.6
147.5°	1202.2	1202.2	1203.3	1206.4	1201.3
150°	1233.1	1231.1	1233.1	1235.2	1228.0
152.5°	1263.0	1257.9	1259.9	1262.0	1254.8
155°	1287.7	1281.6	1283.6	1286.7	1278.5
157.5°	1307.3	1304.2	1304.2	1307.3	1299.1
160°	1327.9	1321.7	1322.8	1326.9	1318.6
162.5°	1344.4	1338.2	1339.2	1345.4	1336.2
165°	1358.8	1352.6	1353.7	1359.8	1351.6
167.5°	1370.2	1364.0	1365.0	1372.2	1362.9
170°	1379.4	1372.2	1373.2	1381.5	1372.2
172.5°	1385.6	1378.4	1380.5	1387.7	1378.4
175°	1389.7	1383.5	1384.6	1392.8	1383.5
177.5°	1392.8	1386.6	1387.7	1394.9	1386.6
180°	1389.7	1389.7	1389.7	1389.7	1389.7

(END OF REPORT)