

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: P1035553

Luminaire Tested: S125DIW-B850D1050UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035553
REPORT IS A COMBINATION OF REPORTS P1004099 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1050UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

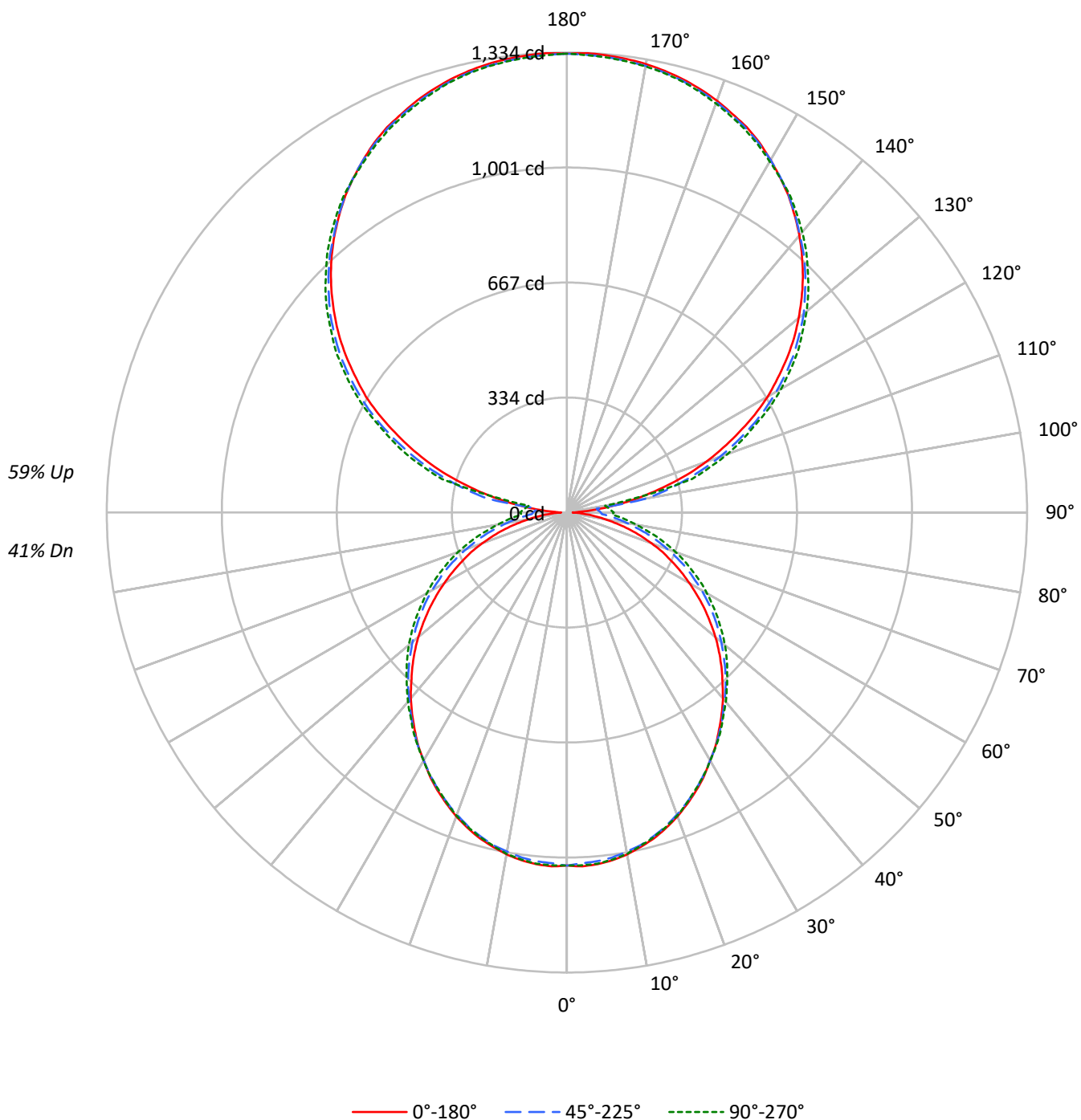
Lumens per Lamp: N/A
Luminaire Lumens: 7261.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	52	51	41	40	39
2	86	79	72	67	78	72	66	62	59	55	52	47	44	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	23
5	66	54	46	40	60	50	42	37	41	35	31	33	29	26	25	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.3
10°-20°	275.1	3.8
20°-30°	409.0	5.6
30°-40°	484.4	6.7
40°-50°	500.8	6.9
50°-60°	461.3	6.4
60°-70°	372.9	5.1
70°-80°	249.5	3.4
80°-90°	131.0	1.8
90°-100°	117.8	1.6
100°-110°	353.8	4.9
110°-120°	576.6	7.9
120°-130°	714.4	9.8
130°-140°	755.4	10.4
140°-150°	702.4	9.7
150°-160°	566.7	7.8
160°-170°	366.5	5.0
170°-180°	126.4	1.7
0°-30°	781.0	10.8
0°-40°	1265.4	17.4
0°-60°	2227.5	30.7
0°-90°	2981.0	41.1
90°-120°	1048.2	14.4
90°-150°	3220.4	44.4
90°-180°	4280.0	58.9
0°-180°	7261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	17	57	98	126	136	14
95°	69	92	89	116	123	79
105°	299	319	349	369	375	317
115°	550	562	590	604	604	546
125°	778	784	804	816	818	695
135°	968	972	978	989	988	746
145°	1120	1121	1121	1127	1126	701
155°	1233	1227	1229	1232	1224	568
165°	1301	1295	1296	1302	1294	367
175°	1330	1325	1326	1334	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	17.1	57.1	98.1	126.1	136.1
92.5°	32.8	53.1	94.1	121.1	129.1
95°	69.3	92.5	89.1	116.1	123.1
97.5°	117.5	147.6	87.1	110.0	118.1
100°	175.7	199.8	235.8	110.0	112.1
102.5°	234.9	257.9	291.0	313.1	236.2
105°	299.0	319.0	349.1	369.2	375.2
107.5°	365.0	379.1	410.2	431.3	433.4
110°	429.1	441.2	471.3	487.4	495.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.3	502.3	530.4	544.5	549.6
115°	550.4	562.5	589.5	603.6	603.7
117.5°	613.5	618.5	647.6	658.8	663.8
120°	672.7	674.7	700.8	715.9	717.0
122.5°	724.0	729.9	753.0	767.1	767.2
125°	778.2	784.1	804.2	816.4	818.4
127.5°	829.5	833.4	849.6	862.6	860.8
130°	876.9	880.8	895.9	906.9	907.0
132.5°	923.2	929.1	936.2	950.3	949.3
135°	967.6	972.5	977.5	988.6	987.7
137.5°	1009.0	1013.9	1015.9	1028.0	1027.1
140°	1048.4	1050.4	1050.4	1063.5	1061.6
142.5°	1084.9	1084.9	1086.9	1095.9	1094.1
145°	1120.4	1121.4	1121.4	1127.4	1125.5
147.5°	1151.0	1151.0	1152.0	1155.0	1150.1
150°	1180.6	1178.6	1180.6	1182.6	1175.7
152.5°	1209.2	1204.3	1206.2	1208.2	1201.3
155°	1232.9	1226.9	1228.9	1231.9	1224.0
157.5°	1251.6	1248.6	1248.6	1251.6	1243.7
160°	1271.3	1265.4	1266.4	1270.3	1262.4
162.5°	1287.1	1281.2	1282.2	1288.1	1279.2
165°	1300.9	1295.0	1296.0	1301.9	1294.0
167.5°	1311.8	1305.8	1306.8	1313.7	1304.9
170°	1320.6	1313.7	1314.7	1322.6	1313.7
172.5°	1326.6	1319.7	1321.6	1328.5	1319.7
175°	1330.5	1324.6	1325.6	1333.5	1324.6
177.5°	1333.5	1327.5	1328.5	1335.4	1327.5
180°	1330.5	1330.5	1330.5	1330.5	1330.5

(END OF REPORT)