

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: P1035554

Luminaire Tested: S125DIW-B850D1050UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035554
REPORT IS A COMBINATION OF REPORTS P1004100 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

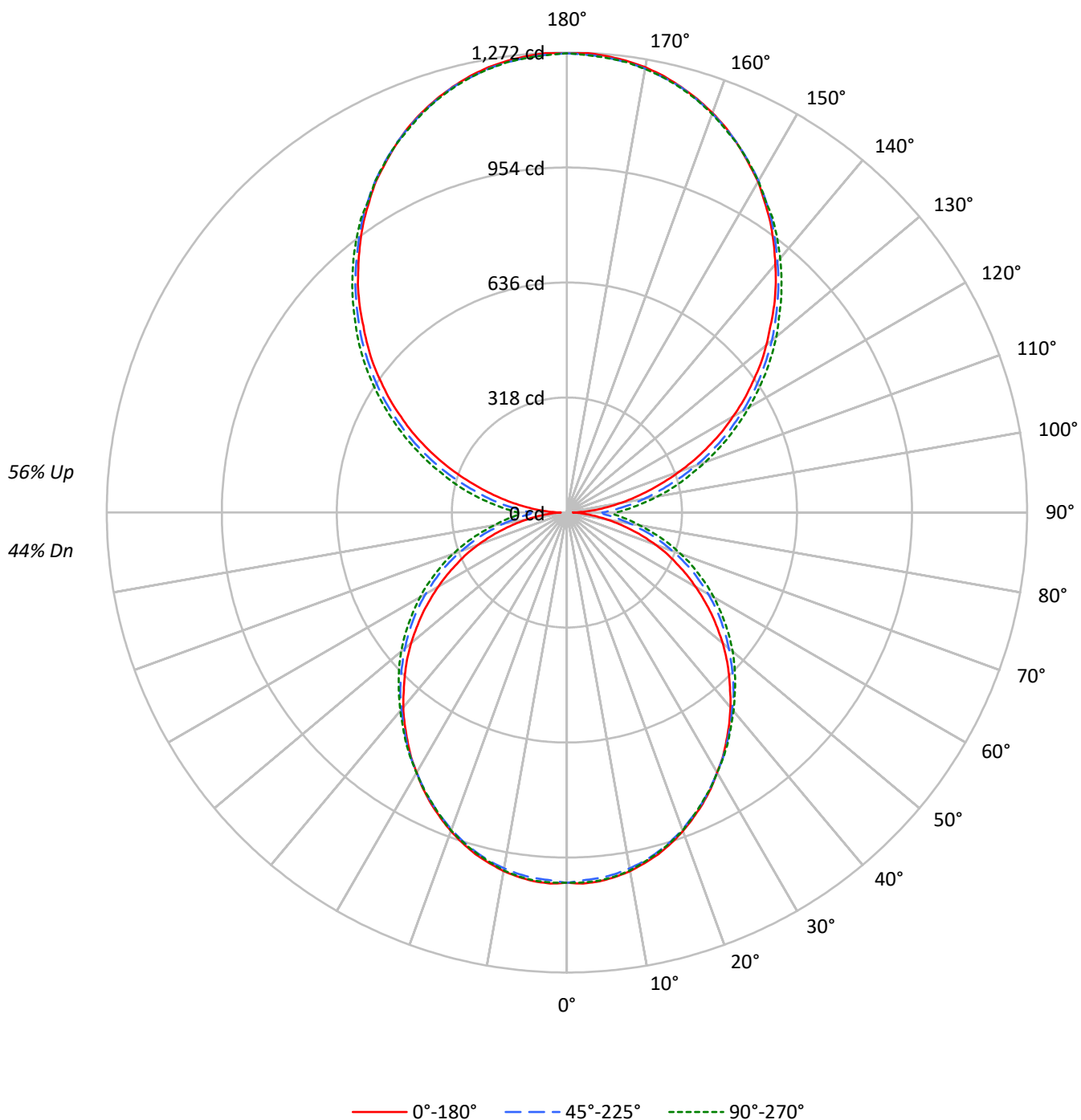
Lumens per Lamp: N/A
Luminaire Lumens: 6718.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	88	84	80	77	69	67	64	56	54	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	43	38	36	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25
5	66	55	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	24	21	19
7	56	44	36	30	51	41	33	28	34	28	24	28	24	21	22	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	20	17	15
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	17	14	12

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	1.4
10°-20°	275.1	4.1
20°-30°	409.0	6.1
30°-40°	484.4	7.2
40°-50°	500.8	7.5
50°-60°	461.3	6.9
60°-70°	372.9	5.6
70°-80°	249.5	3.7
80°-90°	131.0	1.9
90°-100°	157.1	2.3
100°-110°	304.4	4.5
110°-120°	461.3	6.9
120°-130°	580.4	8.6
130°-140°	636.5	9.5
140°-150°	616.9	9.2
150°-160°	516.7	7.7
160°-170°	343.5	5.1
170°-180°	120.2	1.8
0°-30°	781.0	11.6
0°-40°	1265.4	18.8
0°-60°	2227.5	33.2
0°-90°	2981.0	44.4
90°-120°	922.8	13.7
90°-150°	2756.6	41.0
90°-180°	3737.0	55.6
0°-180°	6718.0	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	15
95°	77	105	149	178	187	77
105°	234	255	291	317	327	250
115°	432	443	471	488	493	427
125°	626	630	652	666	670	560
135°	810	815	823	836	837	625
145°	980	983	986	991	992	613
155°	1121	1121	1122	1126	1121	516
165°	1218	1216	1218	1221	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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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	126.2	136.1
92.5°	43.7	77.8	121.8	150.8	159.8
95°	77.3	105.4	149.4	178.4	187.4
97.5°	110.8	135.9	182.9	209.9	218.0
100°	149.3	170.4	215.4	245.4	253.5
102.5°	190.8	214.9	250.9	280.9	289.9
105°	234.3	255.4	291.4	317.4	327.4
107.5°	281.7	300.8	334.8	357.9	363.9
110°	331.1	348.2	379.2	401.3	407.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.5	393.6	424.6	443.6	448.8
115°	431.9	443.0	471.0	488.1	493.1
117.5°	482.3	488.3	515.4	533.5	536.5
120°	529.7	537.7	561.8	578.9	580.9
122.5°	580.1	582.1	607.2	622.3	625.3
125°	625.6	630.5	651.6	665.7	669.7
127.5°	675.0	676.9	695.0	709.0	713.2
130°	719.4	723.4	739.5	752.5	755.5
132.5°	762.9	771.8	780.8	793.9	795.0
135°	810.4	815.3	823.3	836.4	837.4
137.5°	854.8	859.7	865.7	878.8	877.9
140°	896.3	901.3	905.2	918.3	917.4
142.5°	938.8	941.8	945.7	955.7	954.9
145°	980.3	983.3	986.2	991.2	992.3
147.5°	1017.8	1020.8	1022.8	1027.8	1021.8
150°	1056.4	1055.4	1059.4	1059.4	1058.4
152.5°	1088.0	1090.0	1091.0	1093.9	1090.0
155°	1120.6	1120.6	1121.6	1125.6	1120.6
157.5°	1150.3	1148.3	1149.3	1153.2	1146.3
160°	1176.0	1173.0	1174.0	1177.9	1173.0
162.5°	1198.7	1196.7	1196.7	1201.7	1195.7
165°	1218.5	1216.5	1217.5	1221.4	1215.5
167.5°	1236.2	1232.3	1232.3	1238.2	1232.3
170°	1250.1	1246.1	1246.1	1252.1	1245.1
172.5°	1260.0	1256.0	1256.0	1261.9	1256.0
175°	1266.9	1262.9	1262.9	1268.9	1261.9
177.5°	1271.8	1267.9	1266.9	1272.8	1265.9
180°	1269.8	1269.8	1269.8	1269.8	1269.8

(END OF REPORT)