

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730285

Luminaire Tested: **HBLED-LD5-12HE-W-FLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-FLI-UNV-L850
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11292.0 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

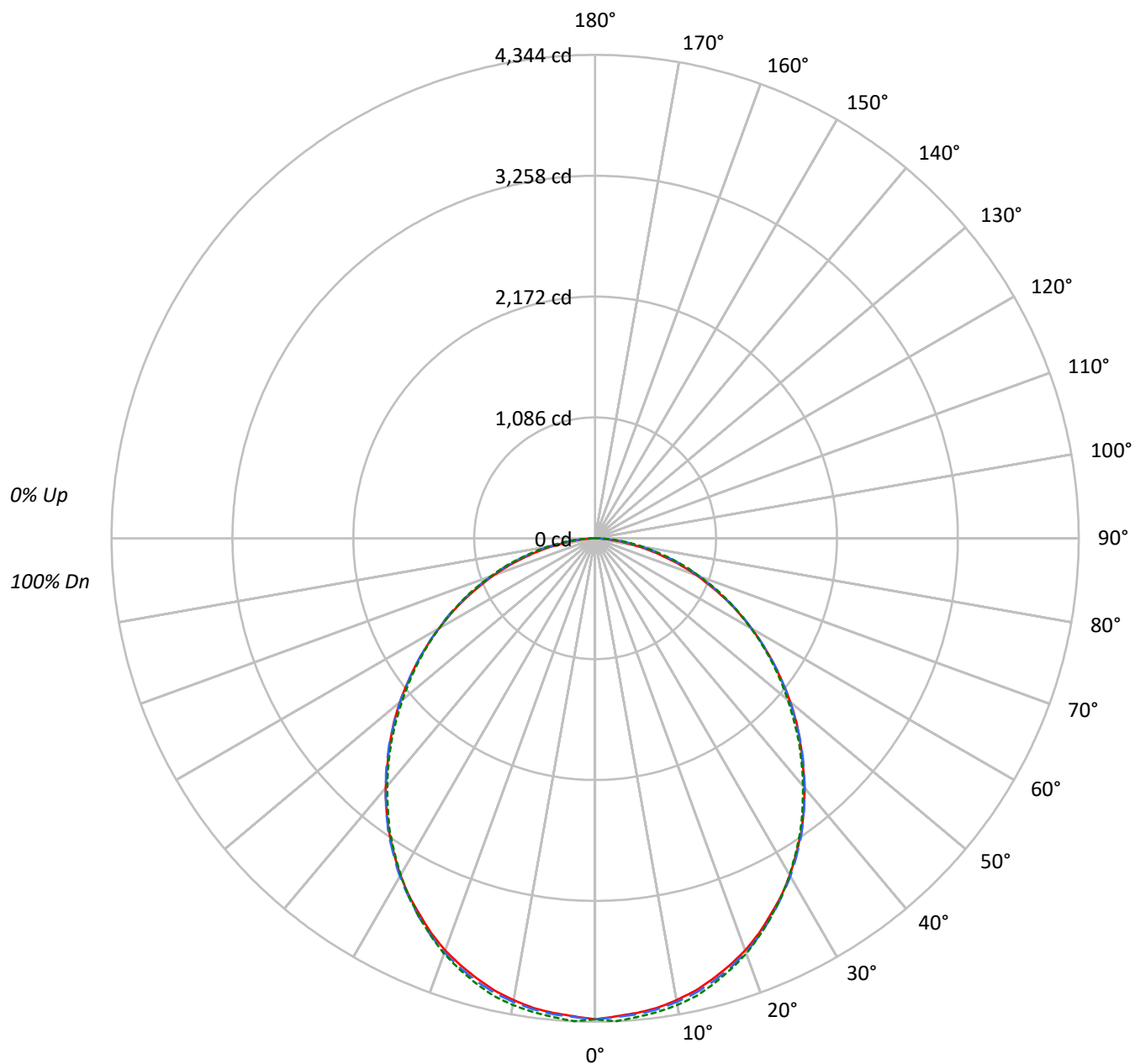
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730285

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730285

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L850

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6980	6980	6980
5°	6940	6960	6999
10°	6909	6936	6981
15°	6848	6885	6919
20°	6770	6803	6822
25°	6645	6683	6673
30°	6522	6540	6513
35°	6361	6377	6337
40°	6170	6170	6122
45°	5954	5970	5909
50°	5749	5740	5668
55°	5500	5501	5452
60°	5234	5240	5220
65°	4933	4982	4995
70°	4556	4681	4686
75°	4027	4288	4354
80°	3303	3755	3967
85°	2292	3153	3564



TEST NUMBER: P730285

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.8	3.6
10°-20°	1163.1	10.3
20°-30°	1728.4	15.3
30°-40°	2020.9	17.9
40°-50°	2014.9	17.8
50°-60°	1748.2	15.5
60°-70°	1291.2	11.4
70°-80°	723.0	6.4
80°-90°	192.9	1.7
90°-100°	0.6	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3300.3	29.2
0°-40°	5321.2	47.1
0°-60°	9084.3	80.4
0°-90°	11291.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4323	4323	4323	4323	4323	
5°	4282	4309	4294	4313	4318	407
15°	4097	4125	4119	4139	4139	1155
25°	3730	3760	3751	3759	3746	1720
35°	3227	3255	3235	3235	3215	2016
45°	2608	2635	2615	2604	2588	2013
55°	1954	1968	1954	1951	1937	1747
65°	1291	1304	1304	1311	1307	1277
75°	646	665	687	692	698	687
85°	124	150	170	185	192	150
90°	0	3	3	7	7	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P730285

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4322.9	4322.9	4322.9	4322.9	4322.9
2.5°	4299.3	4324.9	4306.9	4324.0	4343.8
5°	4281.9	4308.9	4294.0	4313.0	4318.5
7.5°	4256.7	4282.8	4268.5	4287.4	4293.2
10°	4213.8	4242.1	4230.8	4252.3	4258.3
12.5°	4163.7	4190.4	4183.0	4208.0	4212.1
15°	4096.7	4125.3	4118.9	4138.7	4139.0
17.5°	4022.4	4049.3	4044.7	4060.1	4059.5
20°	3940.3	3969.1	3959.2	3976.0	3970.7
22.5°	3842.9	3873.7	3861.3	3875.4	3862.2
25°	3729.9	3759.9	3751.1	3759.3	3745.6
27.5°	3620.5	3648.0	3629.8	3639.7	3625.2
30°	3498.4	3521.8	3507.8	3511.1	3493.5
32.5°	3361.3	3389.0	3372.0	3371.4	3352.7
35°	3227.1	3255.4	3235.4	3234.8	3214.8
37.5°	3078.7	3105.1	3081.4	3082.8	3059.4
40°	2927.2	2950.0	2927.2	2926.1	2904.7
42.5°	2762.8	2793.0	2772.2	2774.6	2746.0
45°	2607.5	2635.3	2614.7	2603.9	2588.0
47.5°	2452.7	2464.8	2447.8	2445.0	2422.5
50°	2288.9	2297.9	2285.0	2281.7	2256.4
52.5°	2119.5	2135.2	2118.7	2114.3	2097.6
55°	1954.0	1967.5	1954.3	1951.0	1936.7
57.5°	1787.4	1805.0	1791.6	1788.2	1776.7
60°	1620.9	1626.1	1622.8	1627.7	1616.5
62.5°	1455.4	1467.4	1471.3	1469.9	1461.1
65°	1291.2	1303.9	1304.1	1310.8	1307.4
67.5°	1123.3	1139.7	1144.5	1151.3	1154.3
70°	965.2	977.8	991.6	995.7	992.7
72.5°	806.0	826.4	841.8	845.3	858.3
75°	645.5	664.7	687.3	692.2	698.0
77.5°	496.5	522.0	542.4	549.0	556.2
80°	355.2	383.5	403.8	412.9	426.7
82.5°	233.1	262.0	282.6	291.7	308.5
85°	123.7	149.6	170.2	185.3	192.4
87.5°	36.6	58.5	70.4	74.8	81.1
90°	0.0	2.8	3.3	7.4	6.9
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P730285

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L850

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)