

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: P730861

Luminaire Tested: **HBLED-LD5-30HE-W-FLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730861
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-LD5-30HE-W-FLI-UNV-L850
Description: 30000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28475.0 lumens
Efficiency: N/A
Efficacy: 159.1 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

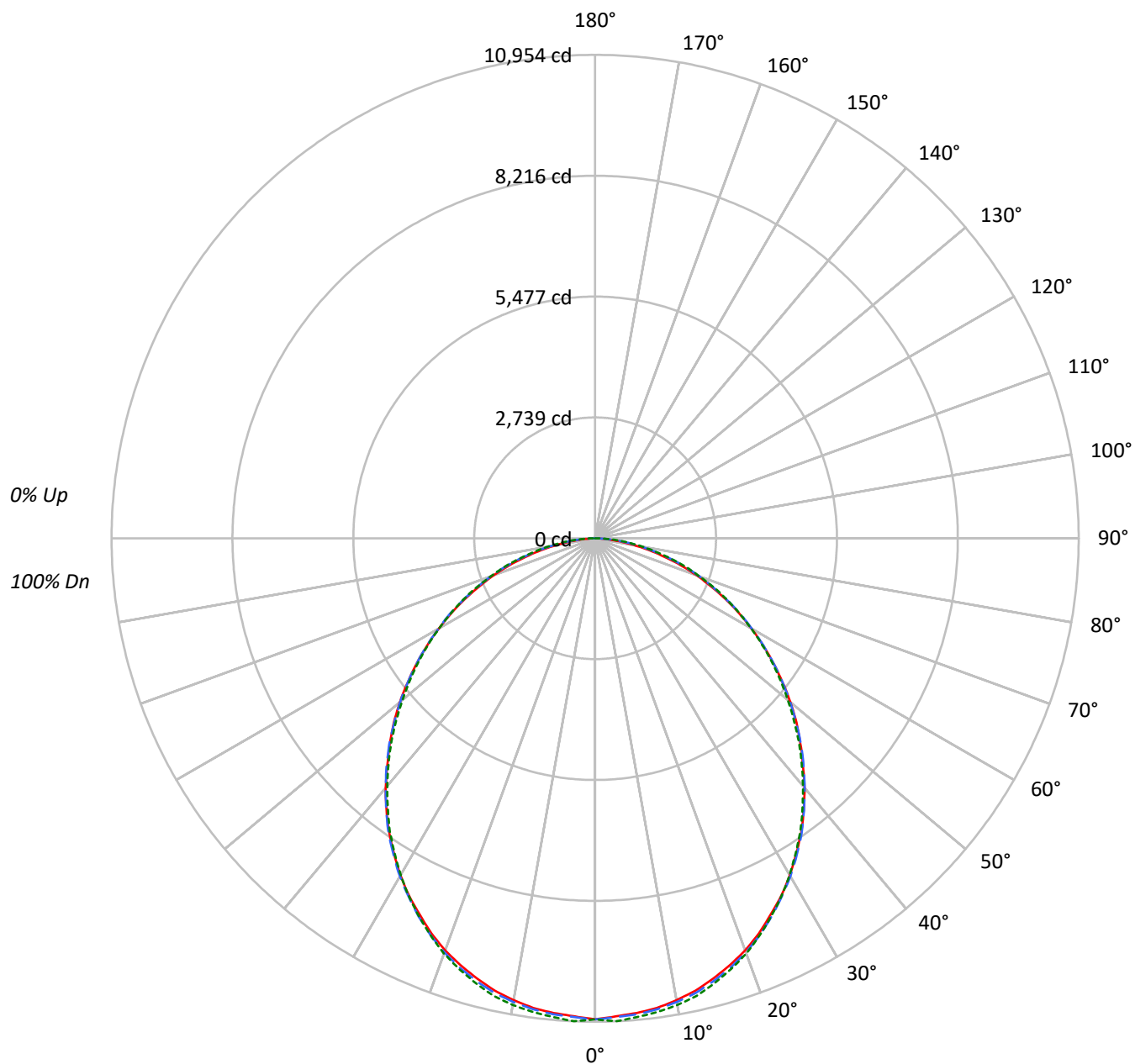
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730861

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730861

CATALOG NUMBER: HBLED-LD5-30HE-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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17601	17601	17601
5°	17501	17550	17650
10°	17421	17491	17605
15°	17268	17362	17446
20°	17072	17155	17204
25°	16756	16852	16827
30°	16447	16492	16424
35°	16040	16081	15979
40°	15558	15558	15438
45°	15014	15055	14901
50°	14498	14474	14293
55°	13871	13872	13748
60°	13199	13214	13163
65°	12440	12564	12596
70°	11490	11804	11817
75°	10154	10812	10980
80°	8328	9468	10004
85°	5780	7949	8990



TEST NUMBER: P730861

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.0	3.6
10°-20°	2932.9	10.3
20°-30°	4358.4	15.3
30°-40°	5096.2	17.9
40°-50°	5081.0	17.8
50°-60°	4408.4	15.5
60°-70°	3256.1	11.4
70°-80°	1823.1	6.4
80°-90°	486.4	1.7
90°-100°	1.5	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°	8322.3	29.2
0°-40°	13418.5	47.1
0°-60°	22907.9	80.4
0°-90°	28473.5	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	1.0	0.0
0°-180°	28475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10901	10901	10901	10901	10901	
5°	10798	10866	10828	10876	10890	###
15°	10330	10403	10387	10437	10437	2913
25°	9406	9481	9459	9480	9445	4336
35°	8138	8209	8159	8157	8107	5083
45°	6575	6645	6593	6566	6526	5076
55°	4928	4961	4928	4920	4884	4406
65°	3256	3288	3289	3305	3297	3220
75°	1628	1676	1733	1746	1760	1733
85°	312	377	429	467	485	379
90°	0	7	8	19	17	13
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: P730861

CATALOG NUMBER: HBLED-LD5-30HE-W-FLI-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10901.0	10901.0	10901.0	10901.0	10901.0
2.5°	10841.4	10906.0	10860.8	10903.8	10953.8
5°	10797.8	10865.8	10828.2	10876.0	10889.9
7.5°	10734.0	10799.9	10763.8	10811.6	10826.2
10°	10625.8	10697.3	10668.8	10722.9	10738.2
12.5°	10499.7	10566.9	10548.2	10611.2	10621.7
15°	10330.5	10402.7	10386.7	10436.6	10437.3
17.5°	10143.4	10211.2	10199.5	10238.4	10236.9
20°	9936.1	10008.8	9984.0	10026.2	10013.0
22.5°	9690.7	9768.3	9737.1	9772.5	9739.2
25°	9405.7	9481.4	9459.2	9479.9	9445.3
27.5°	9129.8	9199.2	9153.4	9178.3	9141.6
30°	8822.0	8880.9	8845.7	8853.9	8809.6
32.5°	8476.1	8546.1	8503.1	8501.8	8454.6
35°	8137.8	8209.2	8158.7	8157.2	8106.7
37.5°	7763.5	7830.0	7770.4	7773.9	7715.0
40°	7381.5	7439.1	7381.5	7378.7	7324.7
42.5°	6966.9	7043.2	6990.6	6996.7	6924.7
45°	6575.3	6645.3	6593.4	6566.2	6526.0
47.5°	6185.1	6215.5	6172.5	6165.6	6108.8
50°	5771.8	5794.7	5762.1	5753.8	5690.1
52.5°	5344.8	5384.4	5342.7	5331.6	5289.4
55°	4927.5	4961.4	4928.1	4919.8	4883.8
57.5°	4507.4	4551.8	4517.8	4509.4	4480.4
60°	4087.4	4100.4	4092.2	4104.6	4076.3
62.5°	3670.0	3700.4	3710.2	3706.7	3684.5
65°	3256.1	3288.0	3288.7	3305.4	3296.9
67.5°	2832.5	2874.1	2886.0	2903.2	2910.8
70°	2433.9	2465.8	2500.5	2510.8	2503.2
72.5°	2032.5	2083.8	2122.7	2131.7	2164.3
75°	1627.7	1676.2	1733.1	1745.5	1760.1
77.5°	1252.0	1316.4	1367.7	1384.4	1402.4
80°	895.7	967.0	1018.3	1041.2	1075.9
82.5°	587.9	660.7	712.6	735.5	777.8
85°	312.0	377.2	429.1	467.2	485.3
87.5°	92.2	147.6	177.4	188.5	204.5
90°	0.0	6.9	8.3	18.7	17.4
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: P730861

CATALOG NUMBER: HBLED-LD5-30HE-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)