

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: P730568

Luminaire Tested: **HBLED-LD5-18HE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730568
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-LD5-18HE-W-FLI-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17209.0 lumens
Efficiency: N/A
Efficacy: 156.2 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

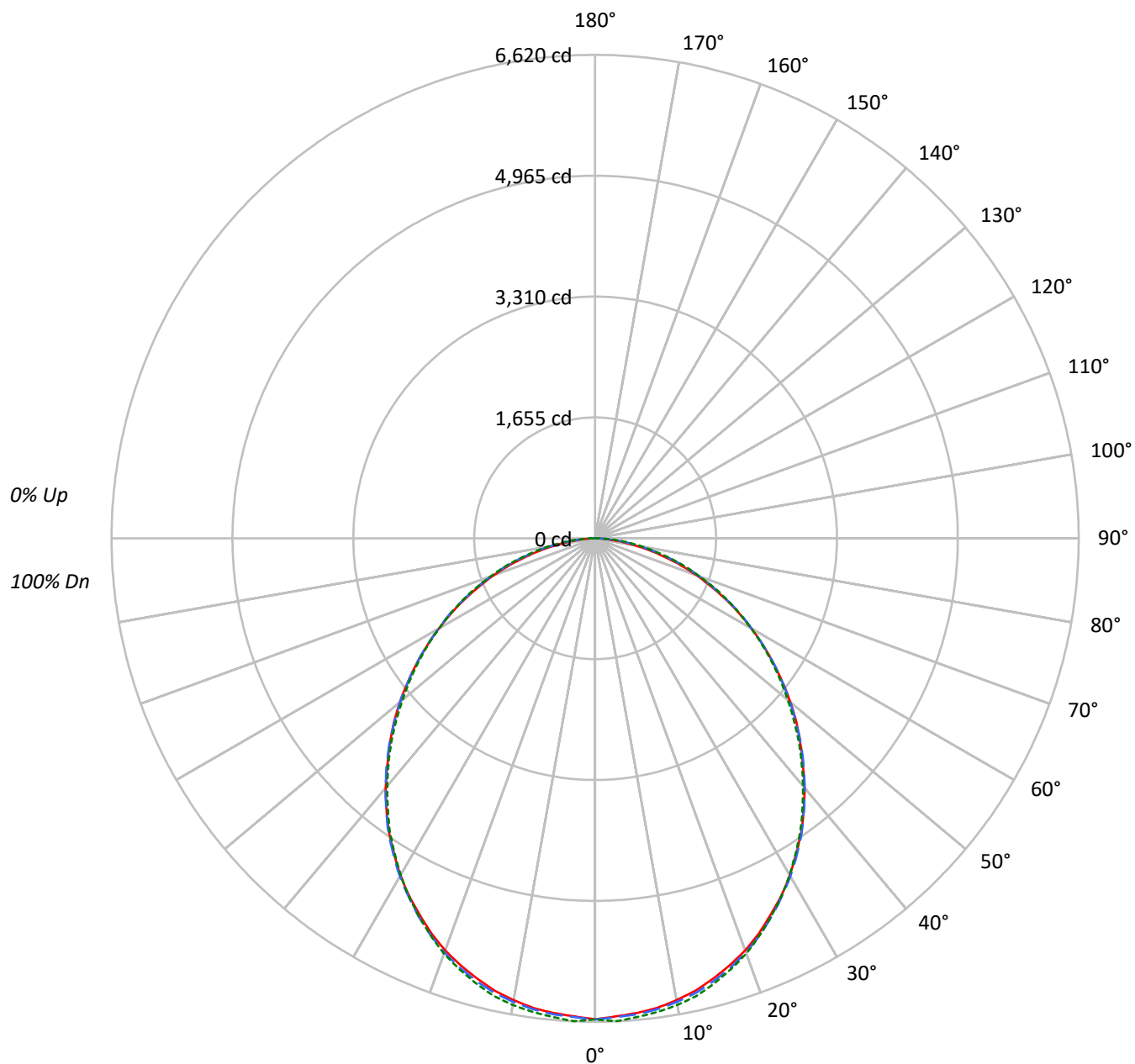
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10637	10637	10637
5°	10577	10606	10667
10°	10529	10571	10640
15°	10436	10493	10544
20°	10318	10367	10398
25°	10127	10184	10169
30°	9940	9967	9926
35°	9694	9719	9657
40°	9402	9402	9330
45°	9074	9099	9006
50°	8762	8747	8638
55°	8383	8384	8308
60°	7977	7986	7955
65°	7518	7593	7612
70°	6944	7134	7142
75°	6137	6534	6636
80°	5033	5722	6046
85°	3492	4805	5433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.1	3.6
10°-20°	1772.5	10.3
20°-30°	2634.0	15.3
30°-40°	3079.9	17.9
40°-50°	3070.7	17.8
50°-60°	2664.3	15.5
60°-70°	1967.9	11.4
70°-80°	1101.8	6.4
80°-90°	294.0	1.7
90°-100°	0.9	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°	5029.6	29.2
0°-40°	8109.5	47.1
0°-60°	13844.5	80.4
0°-90°	17208.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6588	6588	6588	6588	6588	
5°	6526	6567	6544	6573	6581	620
15°	6243	6287	6277	6307	6308	1761
25°	5684	5730	5717	5729	5708	2621
35°	4918	4961	4931	4930	4899	3072
45°	3974	4016	3985	3968	3944	3068
55°	2978	2998	2978	2973	2952	2663
65°	1968	1987	1988	1998	1992	1946
75°	984	1013	1047	1055	1064	1048
85°	188	228	259	282	293	229
90°	0	4	5	11	10	8
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6588.1	6588.1	6588.1	6588.1	6588.1
2.5°	6552.1	6591.1	6563.8	6589.8	6620.0
5°	6525.7	6566.8	6544.1	6573.0	6581.4
7.5°	6487.2	6527.0	6505.2	6534.1	6542.9
10°	6421.8	6465.0	6447.8	6480.5	6489.7
12.5°	6345.5	6386.1	6374.8	6413.0	6419.3
15°	6243.3	6286.9	6277.2	6307.4	6307.8
17.5°	6130.2	6171.2	6164.1	6187.6	6186.7
20°	6005.0	6048.9	6033.9	6059.4	6051.4
22.5°	5856.6	5903.5	5884.6	5906.0	5885.9
25°	5684.4	5730.1	5716.7	5729.2	5708.3
27.5°	5517.7	5559.6	5531.9	5547.0	5524.8
30°	5331.6	5367.2	5345.9	5350.9	5324.1
32.5°	5122.6	5164.9	5138.9	5138.1	5109.6
35°	4918.1	4961.3	4930.7	4929.8	4899.3
37.5°	4691.9	4732.1	4696.1	4698.2	4662.6
40°	4461.0	4495.8	4461.0	4459.3	4426.7
42.5°	4210.5	4256.6	4224.8	4228.5	4185.0
45°	3973.8	4016.1	3984.7	3968.3	3944.0
47.5°	3738.0	3756.4	3730.4	3726.2	3691.9
50°	3488.2	3502.0	3482.3	3477.3	3438.8
52.5°	3230.2	3254.1	3228.9	3222.2	3196.7
55°	2977.9	2998.4	2978.3	2973.3	2951.5
57.5°	2724.1	2750.9	2730.4	2725.3	2707.8
60°	2470.2	2478.1	2473.1	2480.6	2463.5
62.5°	2218.0	2236.4	2242.3	2240.2	2226.8
65°	1967.8	1987.1	1987.5	1997.6	1992.5
67.5°	1711.9	1737.0	1744.2	1754.6	1759.2
70°	1470.9	1490.2	1511.2	1517.4	1512.8
72.5°	1228.4	1259.4	1282.9	1288.3	1308.0
75°	983.7	1013.0	1047.4	1054.9	1063.7
77.5°	756.7	795.6	826.6	836.7	847.6
80°	541.3	584.4	615.4	629.2	650.2
82.5°	355.3	399.3	430.7	444.5	470.1
85°	188.5	227.9	259.4	282.4	293.3
87.5°	55.7	89.2	107.2	113.9	123.6
90°	0.0	4.2	5.0	11.3	10.5
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



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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)