

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: P730577

Luminaire Tested: **HBLED-LD5-18HE-W-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18525.0 lumens
Efficiency: N/A
Efficacy: 168.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

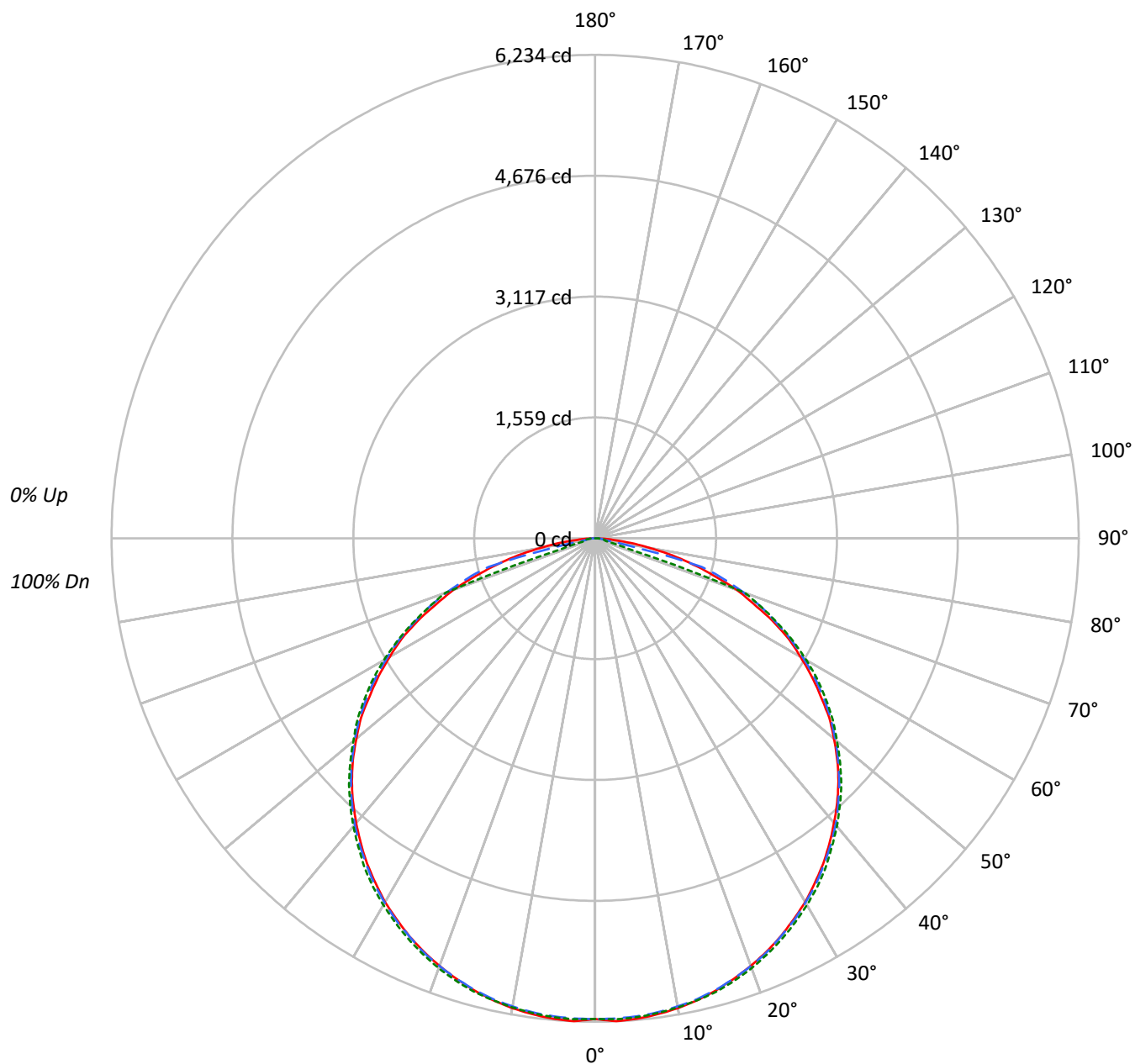
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10009	10009	10009
5°	10081	10029	10047
10°	10086	10050	10070
15°	10085	10071	10117
20°	10084	10086	10139
25°	10089	10094	10155
30°	10100	10113	10180
35°	10098	10131	10215
40°	10100	10164	10219
45°	10128	10166	10248
50°	10097	10156	10222
55°	9986	10126	10235
60°	9873	10033	10158
65°	9655	9855	9929
70°	9166	9557	9674
75°	8175	8865	1068
80°	6574	1105	1169
85°	4374	1432	1458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.8	3.2
10°-20°	1701.3	9.2
20°-30°	2613.9	14.1
30°-40°	3217.8	17.4
40°-50°	3430.5	18.5
50°-60°	3206.8	17.3
60°-70°	2538.6	13.7
70°-80°	1080.1	5.8
80°-90°	147.5	0.8
90°-100°	0.0	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°	4903.9	26.5
0°-40°	8121.6	43.8
0°-60°	14758.9	79.7
0°-90°	18525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6199	6199	6199	6199	6199	
5°	6220	6192	6188	6163	6199	591
15°	6033	6022	6025	6008	6053	1704
25°	5663	5656	5666	5663	5700	2611
35°	5123	5115	5140	5158	5183	3206
45°	4436	4411	4452	4470	4488	3418
55°	3548	3559	3597	3610	3636	3177
65°	2527	2549	2580	2599	2599	2486
75°	1310	1367	1421	232	171	1386
85°	236	70	77	80	79	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6199.0	6199.0	6199.0	6199.0	6199.0
2.5°	6233.5	6204.5	6199.0	6174.1	6207.3
5°	6219.7	6192.1	6187.9	6163.1	6199.0
7.5°	6190.7	6168.6	6165.9	6139.6	6175.5
10°	6152.0	6131.3	6129.9	6106.5	6142.4
12.5°	6099.6	6081.6	6087.1	6063.7	6099.6
15°	6033.3	6022.2	6025.0	6008.4	6052.6
17.5°	5953.2	5947.7	5953.2	5940.8	5980.8
20°	5869.0	5862.0	5870.3	5863.4	5900.7
22.5°	5770.9	5762.6	5779.2	5769.5	5804.0
25°	5663.2	5656.3	5666.0	5663.2	5700.5
27.5°	5540.3	5533.4	5554.1	5555.5	5584.5
30°	5417.4	5407.7	5424.3	5431.2	5460.2
32.5°	5271.0	5268.2	5293.1	5298.6	5329.0
35°	5123.3	5115.0	5139.8	5157.8	5182.6
37.5°	4961.7	4960.3	4986.5	5001.7	5014.2
40°	4791.8	4784.9	4822.2	4837.4	4848.4
42.5°	4619.2	4604.0	4639.9	4659.3	4671.7
45°	4435.5	4410.7	4452.1	4470.1	4488.0
47.5°	4233.9	4211.8	4251.9	4271.2	4283.6
50°	4019.9	3999.2	4043.4	4059.9	4069.6
52.5°	3804.5	3783.7	3830.7	3844.5	3868.0
55°	3547.6	3558.7	3597.3	3609.8	3636.0
57.5°	3310.1	3319.8	3357.0	3372.2	3402.6
60°	3057.4	3072.6	3107.1	3122.3	3145.8
62.5°	2813.0	2814.3	2855.8	2862.7	2880.6
65°	2527.1	2549.2	2579.6	2598.9	2598.9
67.5°	2208.1	2262.0	2314.4	2310.3	2321.3
70°	1941.6	1962.3	2024.4	2034.1	2049.3
72.5°	1607.4	1661.3	1730.3	1292.6	439.1
75°	1310.5	1367.1	1421.0	232.0	171.2
77.5°	1017.7	1061.9	472.3	132.6	129.8
80°	707.0	777.5	118.8	121.5	125.7
82.5°	465.4	379.8	98.0	107.7	109.1
85°	236.1	70.4	77.3	80.1	78.7
87.5°	77.3	42.8	44.2	45.6	47.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)