

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: P730583

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17544.0 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

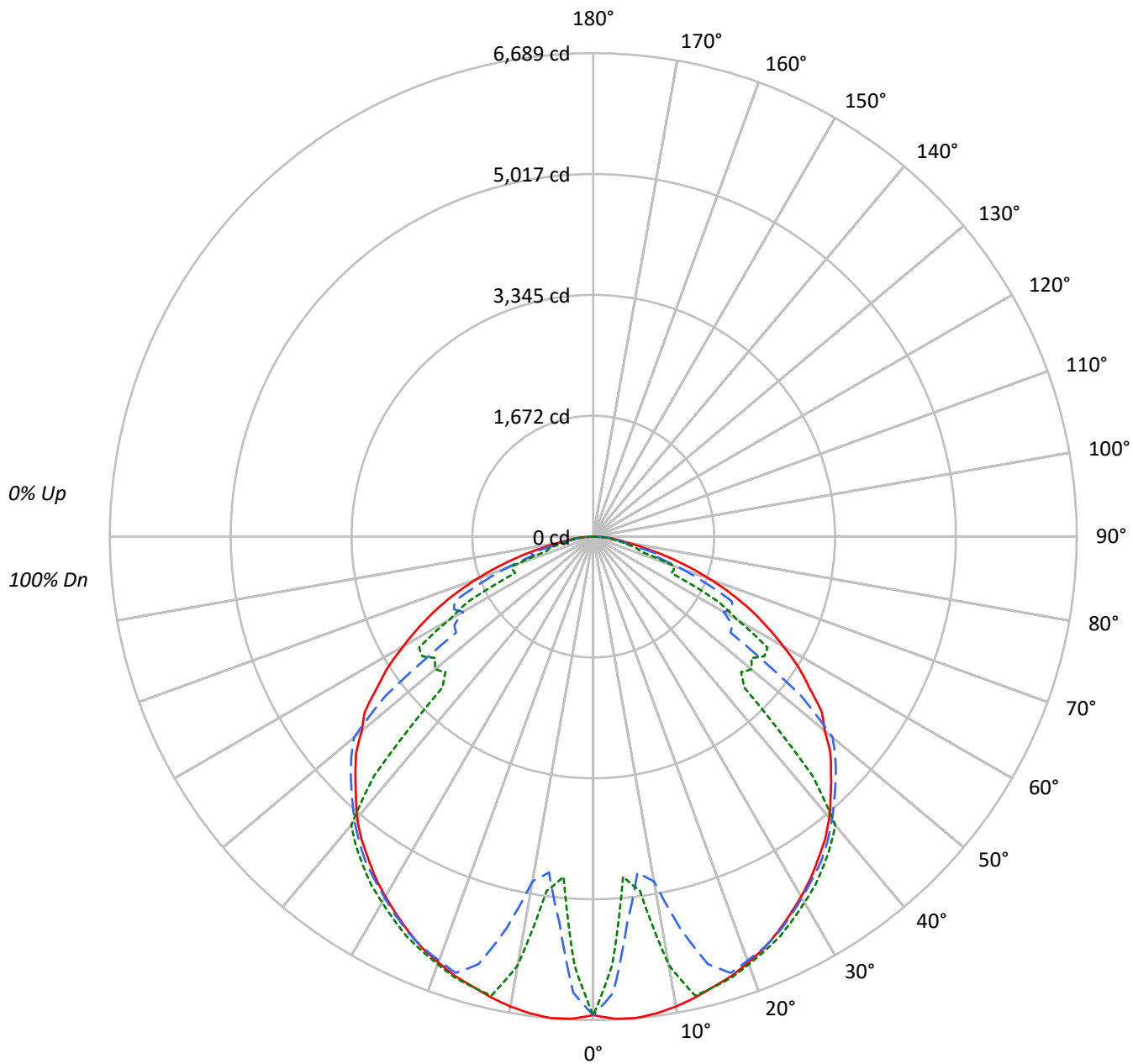
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10692	10692	10692
5°	10841	8709	7659
10°	10822	7943	9878
15°	10774	10237	10783
20°	10774	10725	10821
25°	10755	10779	10878
30°	10724	10759	10898
35°	10707	10826	10952
40°	10708	10825	10980
45°	10624	10832	6732
50°	10504	10854	7175
55°	10283	6526	8132
60°	9809	6727	7446
65°	9190	8078	4556
70°	8115	6119	5585
75°	6467	5563	3873
80°	4455	4020	3328
85°	4268	3711	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	3.0
10°-20°	1659.0	9.5
20°-30°	2729.4	15.6
30°-40°	3431.9	19.6
40°-50°	3365.8	19.2
50°-60°	2788.8	15.9
60°-70°	1967.0	11.2
70°-80°	858.2	4.9
80°-90°	214.4	1.2
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°	4918.0	28.0
0°-40°	8349.9	47.6
0°-60°	14504.4	82.7
0°-90°	17544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6622	6622	6622	6622	6622	
5°	6689	6226	5374	4872	4726	635
15°	6446	4476	6124	6471	6451	1823
25°	6037	5524	6050	6091	6106	2783
35°	5432	5429	5492	5529	5556	3403
45°	4653	4667	4744	4202	2948	3592
55°	3653	3772	2318	2636	2889	3268
65°	2406	2547	2114	1626	1192	2365
75°	1037	1016	892	583	621	1112
85°	230	205	200	192	190	239
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6622.3	6622.3	6622.3	6622.3	6622.3
2.5°	6676.9	6538.4	6318.2	6041.1	5942.9
5°	6688.8	6225.5	5373.5	4872.3	4725.8
7.5°	6654.8	5657.8	4684.6	4789.9	4945.1
10°	6600.9	5159.0	4844.6	5699.8	6025.2
12.5°	6532.0	4715.5	5550.1	6438.6	6503.5
15°	6445.7	4476.4	6124.2	6471.1	6451.2
17.5°	6372.8	4616.5	6330.1	6406.1	6391.8
20°	6270.7	4896.1	6242.2	6303.2	6297.6
22.5°	6167.7	5227.0	6159.0	6202.6	6202.6
25°	6037.1	5524.0	6050.5	6091.0	6106.0
27.5°	5893.8	5695.0	5915.1	5948.4	5975.3
30°	5752.0	5719.6	5771.1	5813.8	5845.4
32.5°	5602.4	5589.7	5630.1	5675.2	5715.6
35°	5432.1	5428.9	5492.3	5528.7	5556.5
37.5°	5272.1	5261.1	5319.7	5370.4	5391.7
40°	5080.6	5080.6	5136.0	5187.4	5209.6
42.5°	4862.0	4892.9	4935.6	4988.7	4493.0
45°	4652.9	4667.2	4744.0	4201.6	2948.1
47.5°	4451.8	4470.0	4542.9	2701.0	2774.7
50°	4181.8	4264.1	4321.1	2693.1	2856.3
52.5°	3984.6	4020.2	3627.5	2666.2	2758.0
55°	3652.9	3772.4	2318.5	2636.1	2888.7
57.5°	3369.4	3456.5	2279.8	2701.0	2857.8
60°	3037.6	3170.6	2083.3	2606.0	2305.9
62.5°	2719.2	2845.9	2175.2	2050.9	1952.7
65°	2405.6	2547.4	2114.3	1626.5	1192.5
67.5°	2062.0	1929.8	1686.7	1145.8	1206.0
70°	1719.1	1347.8	1296.3	1281.3	1183.0
72.5°	1366.7	983.5	860.7	961.3	688.1
75°	1036.6	1016.0	891.7	582.8	620.8
77.5°	719.0	733.3	477.5	568.5	471.9
80°	479.1	415.0	432.3	362.7	357.9
82.5°	331.8	338.9	284.3	275.5	279.6
85°	230.4	205.1	200.3	191.7	190.0
87.5°	76.8	89.5	83.2	75.2	80.0
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)