

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: P730544

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-AI-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17093.0 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

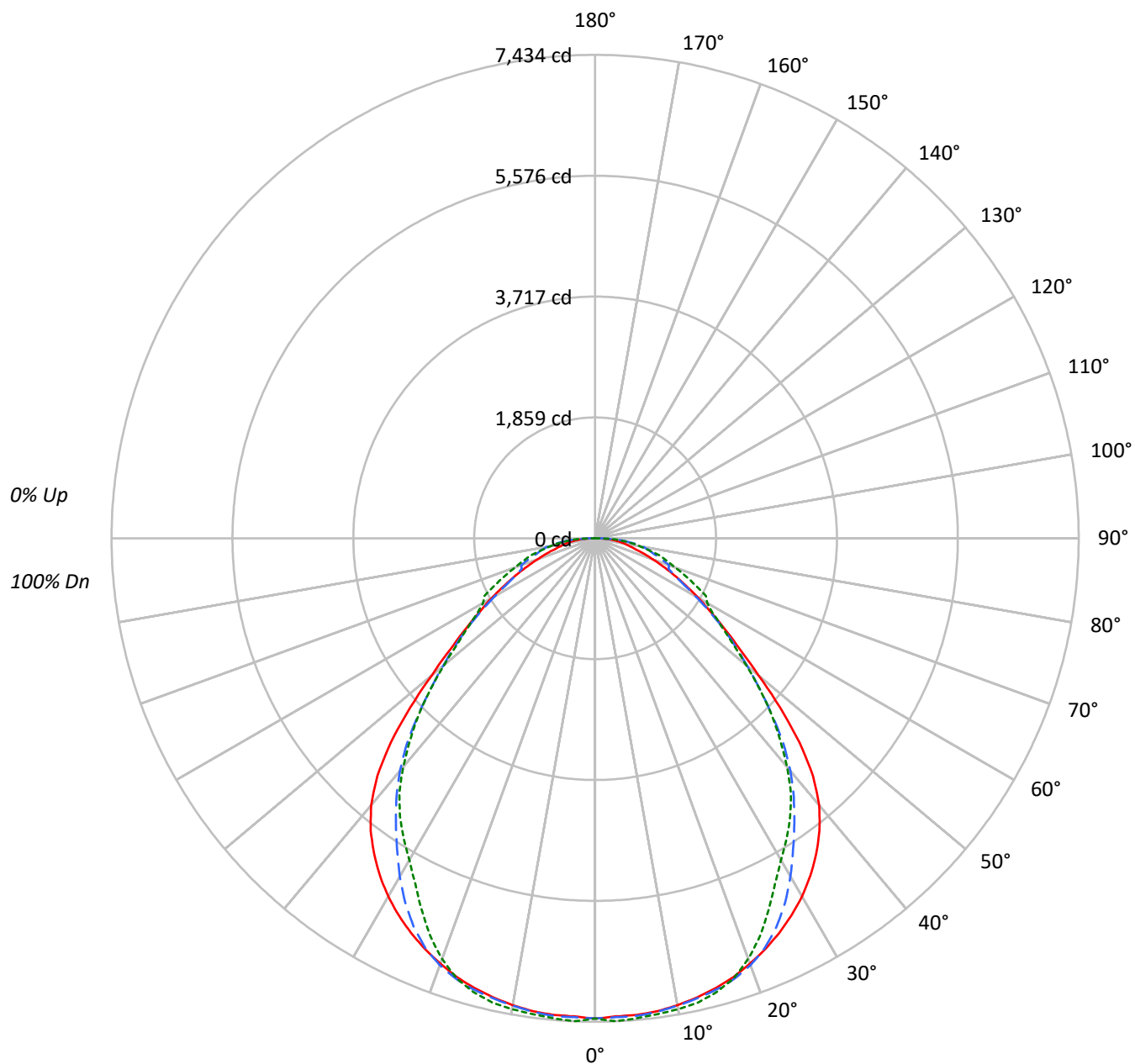
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11923	11923	11923
5°	11923	11948	12007
10°	11952	11967	12055
15°	11971	12015	12074
20°	11959	12003	11825
25°	11928	11750	11239
30°	11858	11195	10650
35°	11679	10522	10303
40°	11289	9838	9676
45°	10147	8785	8753
50°	8230	7652	7600
55°	6833	6706	6704
60°	5916	5744	6421
65°	5128	5096	6473
70°	4421	5716	6170
75°	3964	5858	6432
80°	4121	6896	6453
85°	4678	7947	7373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.1	4.1
10°-20°	2030.7	11.9
20°-30°	3016.0	17.6
30°-40°	3424.0	20.0
40°-50°	3060.9	17.9
50°-60°	2116.3	12.4
60°-70°	1396.5	8.2
70°-80°	942.1	5.5
80°-90°	403.5	2.4
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°	5749.7	33.6
0°-40°	9173.7	53.7
0°-60°	14350.9	84.0
0°-90°	17093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7385	7385	7385	7385	7385	
5°	7356	7401	7372	7402	7408	700
15°	7161	7196	7188	7228	7223	2021
25°	6696	6759	6595	6399	6308	3085
35°	5926	5801	5338	5261	5227	3695
45°	4444	4067	3848	3877	3833	3379
55°	2428	2216	2382	2349	2382	2205
65°	1342	1192	1334	1560	1694	1339
75°	636	800	939	1004	1031	694
85°	252	351	429	432	398	263
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7384.7	7384.7	7384.7	7384.7	7384.7
2.5°	7359.6	7405.6	7371.3	7403.1	7434.0
5°	7356.2	7401.4	7372.1	7402.2	7408.1
7.5°	7335.4	7377.1	7342.9	7372.1	7378.8
10°	7290.2	7339.5	7299.4	7344.5	7352.9
12.5°	7231.7	7281.9	7246.7	7308.6	7312.0
15°	7161.4	7195.7	7188.2	7228.3	7223.3
17.5°	7072.8	7112.1	7106.2	7116.2	7092.8
20°	6959.9	7004.2	6985.8	6939.8	6882.1
22.5°	6838.6	6892.1	6819.4	6703.2	6622.0
25°	6695.6	6759.2	6595.3	6398.8	6308.5
27.5°	6537.6	6594.5	6321.9	6081.0	5987.4
30°	6360.3	6384.5	6004.9	5775.8	5712.2
32.5°	6155.4	6120.3	5666.2	5514.9	5478.1
35°	5925.5	5800.9	5338.5	5260.7	5227.2
37.5°	5666.2	5438.0	5014.9	4978.9	4943.7
40°	5356.0	5019.0	4667.8	4644.4	4590.9
42.5°	4955.5	4563.3	4282.3	4254.7	4207.0
45°	4443.7	4067.4	3847.5	3876.7	3833.3
47.5°	3855.0	3569.9	3430.2	3510.5	3430.2
50°	3276.3	3084.9	3046.4	3119.1	3025.5
52.5°	2802.2	2629.9	2709.4	2721.9	2665.9
55°	2427.5	2216.0	2382.4	2349.0	2381.5
57.5°	2101.5	1864.8	2069.7	2031.2	2143.2
60°	1832.2	1566.3	1778.7	1770.3	1988.5
62.5°	1568.0	1355.5	1526.1	1649.0	1917.4
65°	1342.2	1191.6	1333.8	1559.6	1694.2
67.5°	1125.5	1068.7	1220.0	1345.5	1492.7
70°	936.5	965.8	1210.8	1187.4	1307.0
72.5°	777.7	877.2	1068.7	1072.9	1157.3
75°	635.5	799.5	939.1	1003.5	1031.1
77.5°	528.5	725.0	848.0	870.5	843.8
80°	443.2	638.8	741.7	731.7	694.0
82.5°	357.9	484.2	584.6	593.8	549.4
85°	252.5	351.3	429.0	431.5	398.0
87.5°	135.4	216.6	260.1	267.6	247.5
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)