

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: P730550

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17480.0 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

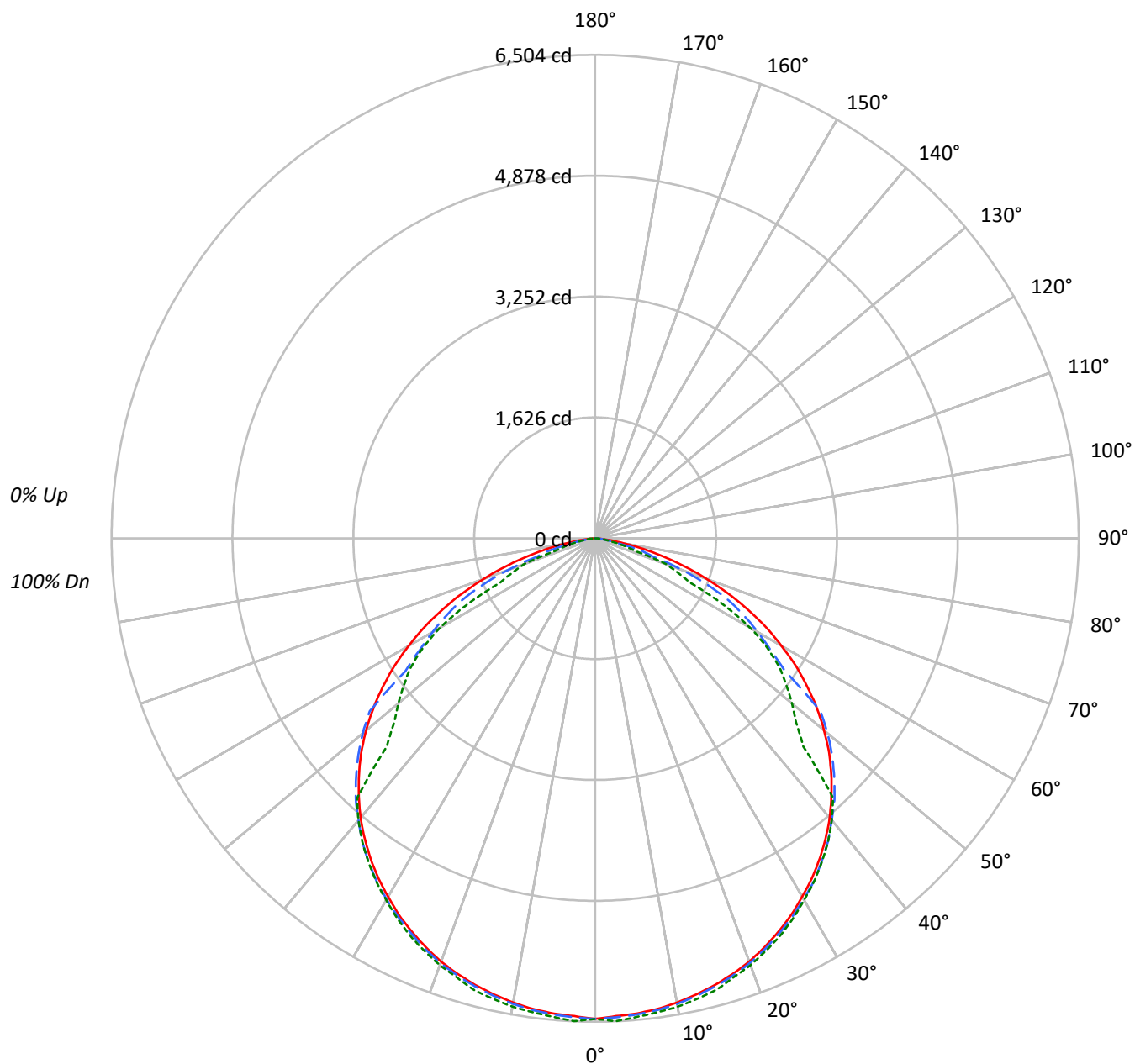
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10440	10440	10440
5°	10402	10425	10476
10°	10401	10430	10491
15°	10400	10431	10516
20°	10413	10452	10501
25°	10401	10440	10503
30°	10381	10458	10481
35°	10376	10471	10479
40°	10344	10435	10435
45°	10255	10379	9044
50°	10097	10249	8677
55°	9811	8773	8523
60°	9350	8155	7787
65°	8647	7571	5393
70°	7530	5891	4805
75°	5948	3954	2583
80°	3828	1888	1610
85°	1575	1152	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.3	3.5
10°-20°	1767.8	10.1
20°-30°	2710.4	15.5
30°-40°	3322.0	19.0
40°-50°	3415.3	19.5
50°-60°	2914.8	16.7
60°-70°	1927.0	11.0
70°-80°	713.9	4.1
80°-90°	95.5	0.5
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°	5091.6	29.1
0°-40°	8413.6	48.1
0°-60°	14743.6	84.3
0°-90°	17480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6466	6466	6466	6466	6466	
5°	6418	6463	6432	6457	6463	610
15°	6222	6260	6241	6288	6291	1757
25°	5838	5869	5860	5913	5896	2692
35°	5264	5301	5312	5346	5316	3293
45°	4491	4536	4546	4538	3961	3461
55°	3485	3549	3117	3026	3028	3110
65°	2263	2282	1982	1630	1412	2232
75°	953	835	634	426	414	1023
85°	85	61	62	68	68	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6465.8	6465.8	6465.8	6465.8	6465.8
2.5°	6434.3	6474.5	6450.8	6480.7	6503.5
5°	6417.8	6462.6	6431.9	6457.1	6463.4
7.5°	6389.4	6431.1	6402.8	6435.9	6431.1
10°	6343.8	6381.5	6361.9	6396.5	6398.8
12.5°	6285.5	6323.3	6305.2	6347.7	6346.9
15°	6221.7	6259.5	6240.6	6287.9	6291.0
17.5°	6146.9	6181.6	6167.4	6210.7	6193.4
20°	6060.3	6090.2	6083.1	6124.1	6111.5
22.5°	5954.0	5984.7	5977.7	6024.9	6006.0
25°	5838.3	5869.1	5860.4	5913.1	5895.8
27.5°	5713.2	5742.2	5741.5	5791.1	5764.4
30°	5568.3	5606.9	5609.3	5653.3	5621.8
32.5°	5425.1	5461.2	5471.5	5503.8	5477.0
35°	5264.4	5300.6	5312.5	5345.5	5316.4
37.5°	5091.2	5121.9	5143.2	5167.6	5144.7
40°	4907.8	4935.3	4951.1	4981.0	4951.1
42.5°	4703.1	4742.5	4764.5	4785.8	4737.0
45°	4491.3	4536.2	4545.6	4538.5	3960.7
47.5°	4267.0	4315.8	4321.3	3768.7	3662.4
50°	4019.8	4081.2	4080.4	3482.8	3454.5
52.5°	3762.3	3821.4	3819.0	3259.3	3240.4
55°	3485.2	3549.0	3116.7	3026.2	3027.8
57.5°	3202.6	3248.2	2796.4	2800.3	2748.3
60°	2895.6	2938.8	2525.5	2501.1	2411.4
62.5°	2587.8	2605.8	2263.4	2144.5	1973.7
65°	2263.4	2282.3	1981.6	1629.6	1411.5
67.5°	1930.4	1949.3	1644.6	1212.4	1195.8
70°	1595.0	1440.7	1247.8	1010.1	1017.9
72.5°	1264.4	1106.9	815.6	782.5	565.2
75°	953.4	835.3	633.8	425.9	414.1
77.5°	663.7	575.5	339.3	290.5	271.6
80°	411.7	288.9	203.1	180.3	173.2
82.5°	208.6	166.1	110.2	110.2	110.2
85°	85.0	60.6	62.2	67.7	68.5
87.5°	18.1	24.4	29.9	30.7	29.9
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)