

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: P730548

Luminaire Tested: **HBLED-LD5-18HE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730548
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-L840
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: 16810.0 lumens
Efficiency: N/A
Efficacy: 152.5 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

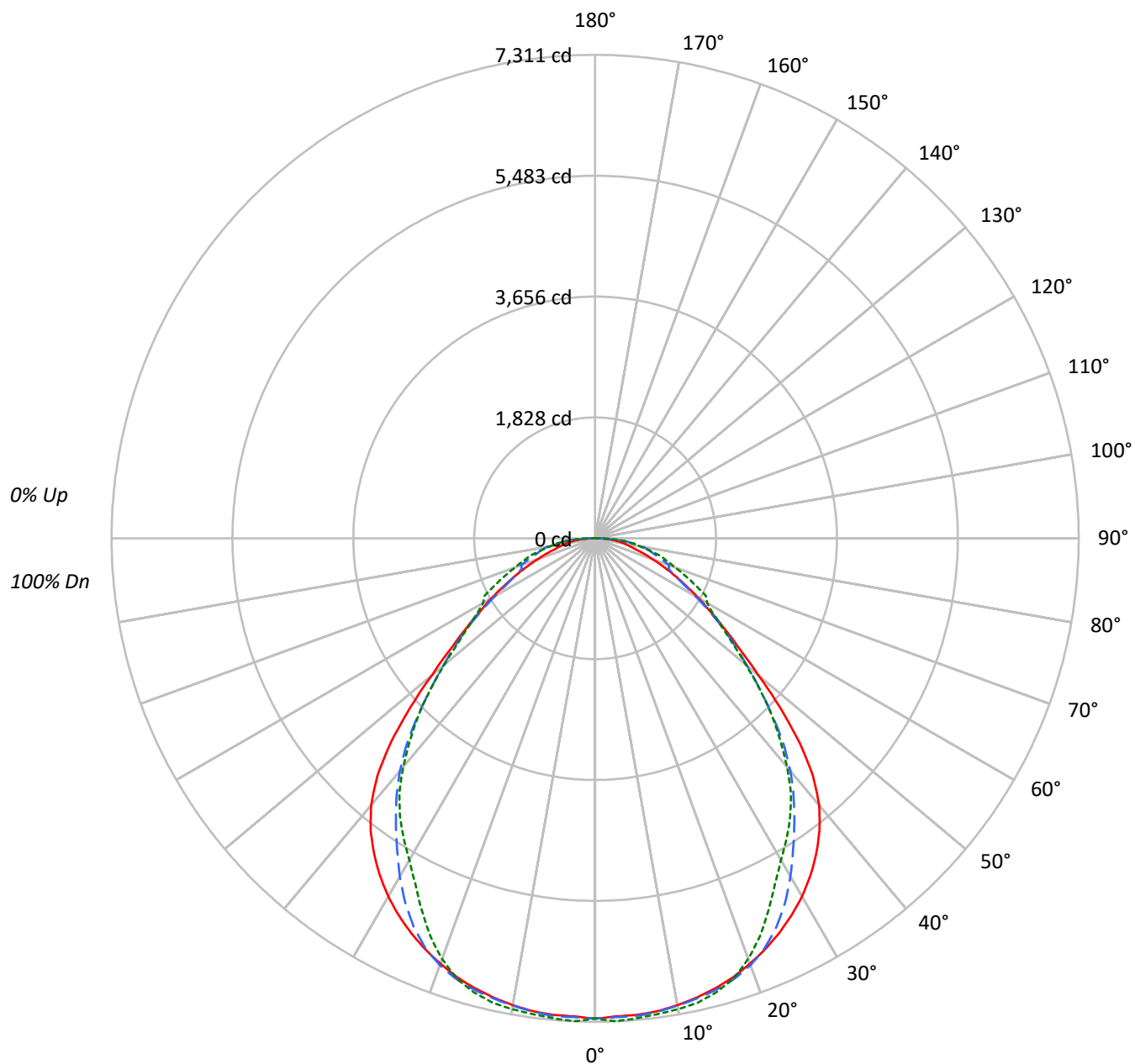
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11726	11726	11726
5°	11725	11751	11808
10°	11754	11769	11856
15°	11773	11816	11874
20°	11761	11804	11629
25°	11731	11555	11052
30°	11662	11010	10473
35°	11486	10348	10133
40°	11102	9675	9516
45°	9979	8640	8608
50°	8093	7525	7474
55°	6720	6595	6593
60°	5818	5648	6315
65°	5043	5011	6366
70°	4348	5621	6068
75°	3899	5762	6326
80°	4053	6782	6346
85°	4600	7816	7253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.5	4.1
10°-20°	1997.0	11.9
20°-30°	2966.0	17.6
30°-40°	3367.3	20.0
40°-50°	3010.2	17.9
50°-60°	2081.3	12.4
60°-70°	1373.3	8.2
70°-80°	926.5	5.5
80°-90°	396.8	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°	5654.6	33.6
0°-40°	9021.8	53.7
0°-60°	14113.3	84.0
0°-90°	16810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7262	7262	7262	7262	7262	
5°	7234	7279	7250	7280	7286	689
15°	7043	7077	7069	7109	7104	1988
25°	6585	6647	6486	6293	6204	3034
35°	5827	5705	5250	5174	5141	3634
45°	4370	4000	3784	3813	3770	3323
55°	2387	2179	2343	2310	2342	2168
65°	1320	1172	1312	1534	1666	1317
75°	625	786	924	987	1014	683
85°	248	345	422	424	392	259
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7262.5	7262.5	7262.5	7262.5	7262.5
2.5°	7237.8	7283.0	7249.3	7280.5	7310.9
5°	7234.5	7278.9	7250.1	7279.7	7285.5
7.5°	7213.9	7255.0	7221.3	7250.1	7256.7
10°	7169.5	7218.0	7178.5	7222.9	7231.2
12.5°	7112.0	7161.3	7126.7	7187.6	7190.9
15°	7042.9	7076.6	7069.2	7108.6	7103.7
17.5°	6955.7	6994.4	6988.6	6998.4	6975.4
20°	6844.7	6888.2	6870.1	6824.9	6768.2
22.5°	6725.4	6778.0	6706.5	6592.2	6512.4
25°	6584.8	6647.3	6486.1	6292.9	6204.0
27.5°	6429.3	6485.3	6217.2	5980.4	5888.3
30°	6255.0	6278.8	5905.5	5680.2	5617.6
32.5°	6053.5	6019.0	5572.4	5423.6	5387.4
35°	5827.4	5704.8	5250.1	5173.6	5140.7
37.5°	5572.4	5348.0	4931.8	4896.5	4861.9
40°	5267.4	4935.9	4590.5	4567.5	4514.8
42.5°	4873.5	4487.7	4211.4	4184.3	4137.4
45°	4370.1	4000.0	3783.8	3812.6	3769.8
47.5°	3791.1	3510.8	3373.4	3452.4	3373.4
50°	3222.0	3033.8	2995.9	3067.5	2975.4
52.5°	2755.8	2586.4	2664.5	2676.8	2621.8
55°	2387.3	2179.3	2343.0	2310.1	2342.1
57.5°	2066.7	1833.9	2035.4	1997.6	2107.8
60°	1801.8	1540.3	1749.2	1741.0	1955.6
62.5°	1542.0	1333.1	1500.8	1621.7	1885.7
65°	1319.9	1171.9	1311.7	1533.7	1666.2
67.5°	1106.9	1051.0	1199.8	1323.2	1468.0
70°	921.0	949.8	1190.8	1167.8	1285.3
72.5°	764.8	862.7	1051.0	1055.1	1138.2
75°	625.0	786.2	923.6	986.9	1014.0
77.5°	519.7	713.0	833.9	856.1	829.8
80°	435.9	628.3	729.4	719.6	682.5
82.5°	351.9	476.2	574.9	583.9	540.3
85°	248.3	345.4	421.9	424.4	391.5
87.5°	133.2	213.0	255.8	263.2	243.4
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)