

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: P730572

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-FLI-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16924.0 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

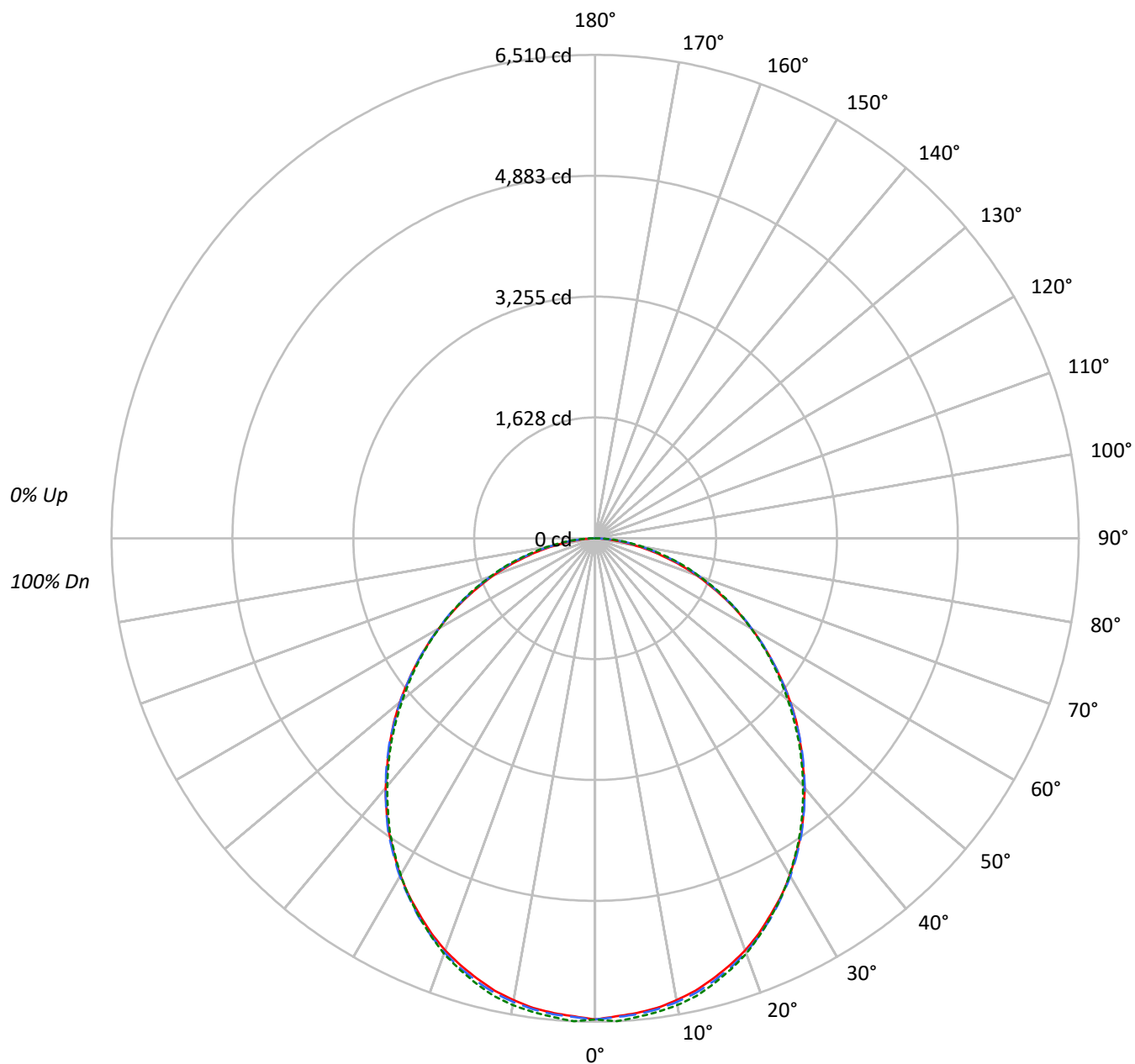
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10401	10431	10490
10°	10354	10396	10464
15°	10263	10319	10369
20°	10147	10196	10225
25°	9959	10016	10001
30°	9775	9802	9762
35°	9533	9558	9497
40°	9247	9247	9176
45°	8923	8948	8857
50°	8617	8602	8495
55°	8244	8245	8171
60°	7845	7854	7823
65°	7393	7467	7486
70°	6829	7016	7024
75°	6035	6426	6526
80°	4949	5627	5946
85°	3435	4726	5343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.8	3.6
10°-20°	1743.1	10.3
20°-30°	2590.4	15.3
30°-40°	3028.9	17.9
40°-50°	3019.9	17.8
50°-60°	2620.1	15.5
60°-70°	1935.3	11.4
70°-80°	1083.5	6.4
80°-90°	289.1	1.7
90°-100°	0.9	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°	4946.3	29.2
0°-40°	7975.2	47.1
0°-60°	13615.2	80.4
0°-90°	16923.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	16924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6479	6479	6479	6479	6479	
5°	6418	6458	6436	6464	6472	610
15°	6140	6183	6173	6203	6203	1732
25°	5590	5635	5622	5634	5614	2577
35°	4837	4879	4849	4848	4818	3021
45°	3908	3950	3919	3903	3879	3017
55°	2929	2949	2929	2924	2903	2619
65°	1935	1954	1955	1964	1960	1914
75°	967	996	1030	1038	1046	1030
85°	185	224	255	278	288	225
90°	0	4	5	11	10	8
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6479.0	6479.0	6479.0	6479.0	6479.0
2.5°	6443.6	6481.9	6455.1	6480.6	6510.3
5°	6417.6	6458.0	6435.7	6464.1	6472.4
7.5°	6379.7	6418.9	6397.4	6425.9	6434.5
10°	6315.4	6357.9	6341.0	6373.1	6382.2
12.5°	6240.4	6280.4	6269.3	6306.7	6312.9
15°	6139.9	6182.8	6173.3	6203.0	6203.4
17.5°	6028.7	6069.0	6062.0	6085.1	6084.2
20°	5905.5	5948.7	5933.9	5959.0	5951.2
22.5°	5759.6	5805.8	5787.2	5808.2	5788.5
25°	5590.3	5635.2	5622.0	5634.3	5613.8
27.5°	5426.3	5467.5	5440.3	5455.1	5433.3
30°	5243.3	5278.3	5257.4	5262.3	5235.9
32.5°	5037.7	5079.4	5053.8	5053.0	5025.0
35°	4836.7	4879.1	4849.1	4848.2	4818.2
37.5°	4614.2	4653.7	4618.3	4620.4	4585.4
40°	4387.2	4421.4	4387.2	4385.5	4353.4
42.5°	4140.8	4186.1	4154.8	4158.5	4115.7
45°	3908.0	3949.6	3918.7	3902.6	3878.7
47.5°	3676.1	3694.2	3668.6	3664.5	3630.7
50°	3430.5	3444.0	3424.7	3419.7	3381.9
52.5°	3176.7	3200.2	3175.4	3168.8	3143.7
55°	2928.6	2948.8	2929.0	2924.1	2902.6
57.5°	2679.0	2705.3	2685.2	2680.1	2662.9
60°	2429.3	2437.1	2432.2	2439.5	2422.7
62.5°	2181.2	2199.3	2205.1	2203.1	2189.9
65°	1935.2	1954.2	1954.6	1964.5	1959.5
67.5°	1683.5	1708.2	1715.3	1725.5	1730.0
70°	1446.6	1465.5	1486.2	1492.3	1487.8
72.5°	1208.0	1238.5	1261.6	1266.9	1286.3
75°	967.4	996.2	1030.1	1037.5	1046.1
77.5°	744.1	782.4	812.9	822.8	833.5
80°	532.3	574.7	605.2	618.8	639.5
82.5°	349.4	392.7	423.6	437.1	462.3
85°	185.4	224.2	255.1	277.7	288.4
87.5°	54.8	87.7	105.5	112.0	121.6
90°	0.0	4.1	4.9	11.1	10.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)