

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: P730573

Luminaire Tested: **HBLED-LD5-18HE-W-FLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730573
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-L850
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17256.0 lumens
Efficiency: N/A
Efficacy: 156.6 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

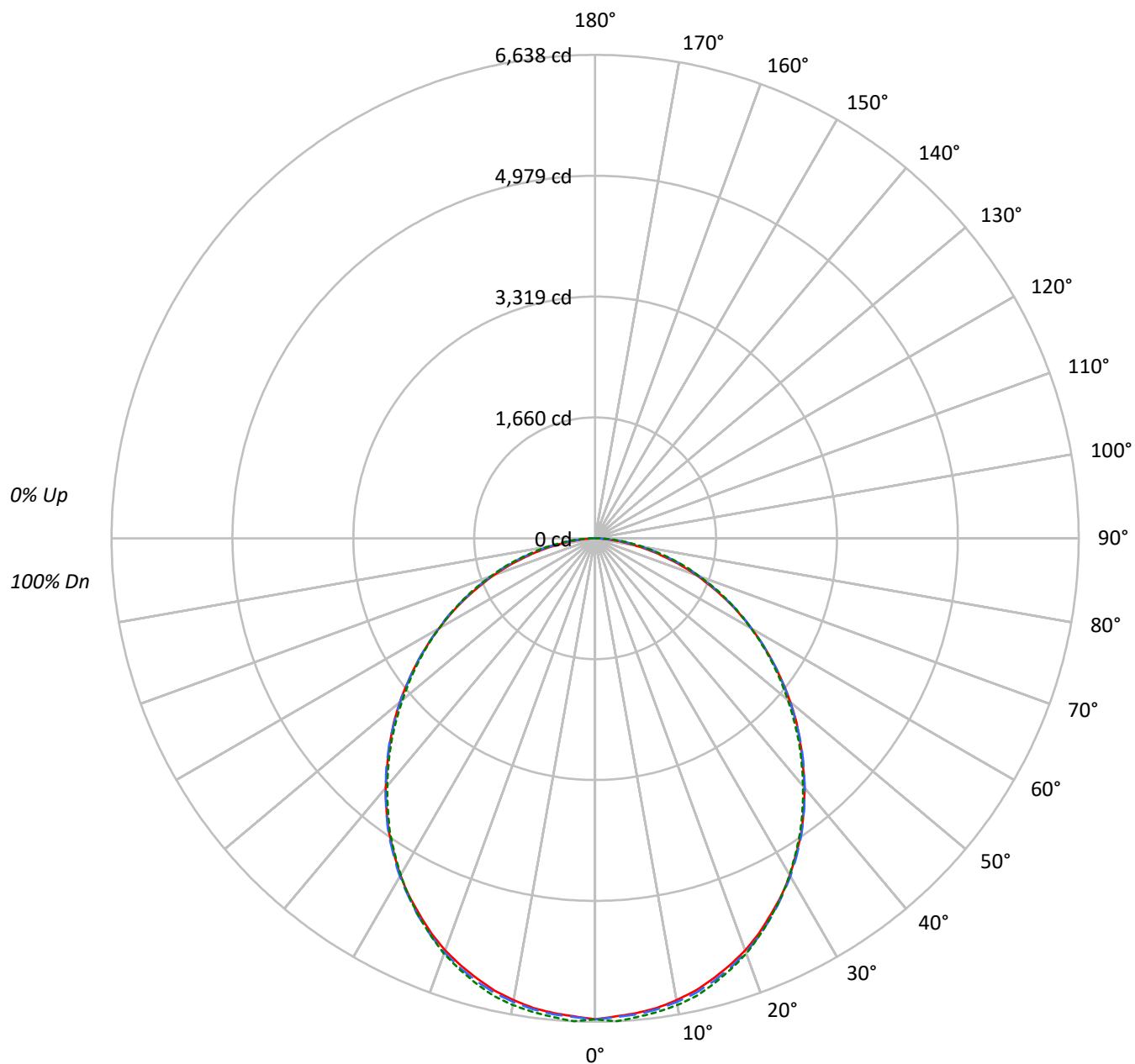
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10666	10666	10666
5°	10605	10635	10696
10°	10557	10600	10669
15°	10465	10521	10573
20°	10346	10396	10426
25°	10154	10212	10197
30°	9967	9994	9953
35°	9720	9745	9683
40°	9428	9428	9356
45°	9099	9123	9030
50°	8786	8771	8661
55°	8406	8407	8331
60°	7999	8008	7977
65°	7538	7614	7633
70°	6963	7153	7161
75°	6153	6552	6654
80°	5047	5738	6062
85°	3503	4818	5448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.8	3.6
10°-20°	1777.3	10.3
20°-30°	2641.2	15.3
30°-40°	3088.3	17.9
40°-50°	3079.1	17.8
50°-60°	2671.5	15.5
60°-70°	1973.2	11.4
70°-80°	1104.8	6.4
80°-90°	294.8	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°	5043.4	29.2
0°-40°	8131.7	47.1
0°-60°	13882.3	80.4
0°-90°	17255.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6606	6606	6606	6606	6606	
5°	6544	6585	6562	6591	6599	622
15°	6260	6304	6294	6325	6325	1766
25°	5700	5746	5732	5745	5724	2628
35°	4932	4975	4944	4943	4913	3081
45°	3985	4027	3996	3979	3955	3076
55°	2986	3007	2986	2981	2960	2670
65°	1973	1992	1993	2003	1998	1951
75°	986	1016	1050	1058	1067	1050
85°	189	229	260	283	294	230
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°	6606.1	6606.1	6606.1	6606.1	6606.1
2.5°	6570.0	6609.1	6581.7	6607.8	6638.1
5°	6543.5	6584.7	6562.0	6590.9	6599.4
7.5°	6504.9	6544.8	6522.9	6551.9	6560.7
10°	6439.3	6482.6	6465.4	6498.2	6507.4
12.5°	6362.9	6403.6	6392.3	6430.5	6436.8
15°	6260.4	6304.1	6294.4	6324.6	6325.1
17.5°	6146.9	6188.1	6180.9	6204.5	6203.6
20°	6021.4	6065.4	6050.3	6075.9	6067.9
22.5°	5872.6	5919.7	5900.7	5922.2	5902.0
25°	5699.9	5745.7	5732.3	5744.9	5723.9
27.5°	5532.7	5574.8	5547.0	5562.1	5539.9
30°	5346.2	5381.9	5360.5	5365.5	5338.7
32.5°	5136.6	5179.0	5152.9	5152.1	5123.5
35°	4931.6	4974.8	4944.2	4943.3	4912.7
37.5°	4704.7	4745.0	4708.9	4711.0	4675.3
40°	4473.2	4508.1	4473.2	4471.5	4438.8
42.5°	4222.0	4268.2	4236.3	4240.0	4196.4
45°	3984.7	4027.1	3995.6	3979.2	3954.8
47.5°	3748.2	3766.6	3740.6	3736.4	3702.0
50°	3497.8	3511.6	3491.9	3486.8	3448.2
52.5°	3239.0	3263.0	3237.7	3231.0	3205.4
55°	2986.1	3006.6	2986.5	2981.4	2959.6
57.5°	2731.5	2758.4	2737.8	2732.7	2715.2
60°	2477.0	2484.9	2479.9	2487.4	2470.2
62.5°	2224.0	2242.5	2248.4	2246.3	2232.8
65°	1973.2	1992.5	1992.9	2003.1	1998.0
67.5°	1716.5	1741.7	1748.9	1759.4	1764.0
70°	1474.9	1494.3	1515.3	1521.6	1517.0
72.5°	1231.7	1262.8	1286.4	1291.8	1311.5
75°	986.4	1015.8	1050.3	1057.8	1066.6
77.5°	758.7	797.7	828.8	839.0	849.9
80°	542.8	586.0	617.1	631.0	652.0
82.5°	356.2	400.4	431.9	445.7	471.4
85°	189.1	228.6	260.1	283.1	294.1
87.5°	55.9	89.5	107.5	114.2	124.0
90°	0.0	4.2	5.0	11.3	10.5
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)