

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: P730571

Luminaire Tested: **HBLED-LD5-18HE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730571
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-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16450.0 lumens
Efficiency: N/A
Efficacy: 149.3 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

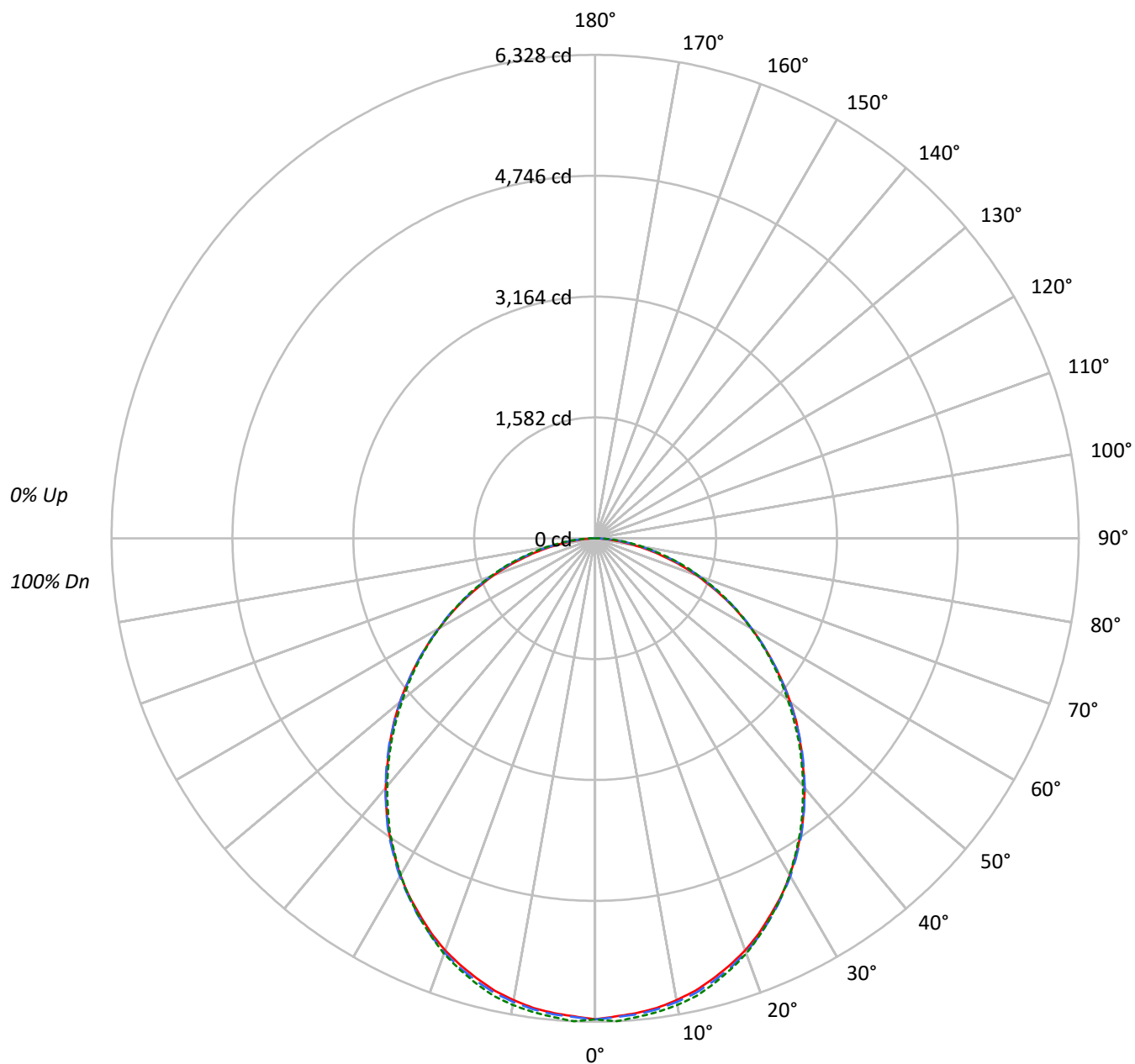
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10168	10168	10168
5°	10110	10139	10196
10°	10064	10105	10170
15°	9976	10030	10079
20°	9863	9910	9939
25°	9680	9735	9721
30°	9502	9527	9488
35°	9266	9290	9231
40°	8988	8988	8919
45°	8674	8697	8609
50°	8376	8361	8257
55°	8013	8014	7942
60°	7625	7634	7604
65°	7186	7258	7276
70°	6637	6820	6827
75°	5866	6246	6343
80°	4811	5470	5780
85°	3338	4592	5193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.6	3.6
10°-20°	1694.3	10.3
20°-30°	2517.9	15.3
30°-40°	2944.1	17.9
40°-50°	2935.3	17.8
50°-60°	2546.8	15.5
60°-70°	1881.1	11.4
70°-80°	1053.2	6.4
80°-90°	281.0	1.7
90°-100°	0.8	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°	4807.8	29.2
0°-40°	7751.8	47.1
0°-60°	13233.9	80.4
0°-90°	16449.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	16450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6298	6298	6298	6298	6298	
5°	6238	6277	6256	6283	6291	593
15°	5968	6010	6000	6029	6030	1683
25°	5434	5477	5465	5476	5456	2505
35°	4701	4742	4713	4712	4683	2937
45°	3799	3839	3809	3793	3770	2932
55°	2847	2866	2847	2842	2821	2545
65°	1881	1900	1900	1910	1905	1860
75°	940	968	1001	1008	1017	1001
85°	180	218	248	270	280	219
90°	0	4	5	11	10	7
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°	6297.5	6297.5	6297.5	6297.5	6297.5
2.5°	6263.1	6300.4	6274.3	6299.1	6328.0
5°	6237.9	6277.1	6255.5	6283.1	6291.1
7.5°	6201.0	6239.1	6218.3	6245.9	6254.3
10°	6138.5	6179.8	6163.4	6194.6	6203.4
12.5°	6065.7	6104.5	6093.7	6130.1	6136.1
15°	5967.9	6009.6	6000.4	6029.2	6029.6
17.5°	5859.8	5899.0	5892.2	5914.7	5913.8
20°	5740.1	5782.1	5767.7	5792.1	5784.5
22.5°	5598.3	5643.2	5625.1	5645.6	5626.3
25°	5433.7	5477.4	5464.6	5476.5	5456.5
27.5°	5274.3	5314.4	5287.9	5302.3	5281.1
30°	5096.5	5130.5	5110.1	5114.9	5089.3
32.5°	4896.6	4937.1	4912.2	4911.5	4884.2
35°	4701.2	4742.4	4713.3	4712.4	4683.2
37.5°	4485.0	4523.4	4489.0	4491.0	4456.9
40°	4264.3	4297.6	4264.3	4262.7	4231.5
42.5°	4024.8	4068.9	4038.5	4042.0	4000.4
45°	3798.6	3839.0	3809.0	3793.3	3770.1
47.5°	3573.1	3590.7	3565.9	3561.8	3529.0
50°	3334.4	3347.6	3328.8	3324.0	3287.2
52.5°	3087.7	3110.6	3086.5	3080.1	3055.7
55°	2846.6	2866.2	2847.0	2842.2	2821.4
57.5°	2603.9	2629.6	2609.9	2605.1	2588.3
60°	2361.3	2368.8	2364.0	2371.2	2354.9
62.5°	2120.1	2137.7	2143.4	2141.4	2128.6
65°	1881.0	1899.5	1899.9	1909.5	1904.6
67.5°	1636.4	1660.4	1667.2	1677.2	1681.6
70°	1406.0	1424.5	1444.6	1450.5	1446.1
72.5°	1174.2	1203.8	1226.3	1231.5	1250.3
75°	940.3	968.3	1001.2	1008.4	1016.8
77.5°	723.3	760.5	790.1	799.8	810.2
80°	517.4	558.7	588.3	601.5	621.6
82.5°	339.6	381.7	411.7	424.9	449.4
85°	180.2	217.9	247.9	269.9	280.3
87.5°	53.3	85.3	102.5	108.9	118.2
90°	0.0	4.0	4.8	10.8	10.0
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)