

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: P730569

Luminaire Tested: **HBLED-LD5-18HE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730569
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-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17730.0 lumens
Efficiency: N/A
Efficacy: 160.9 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

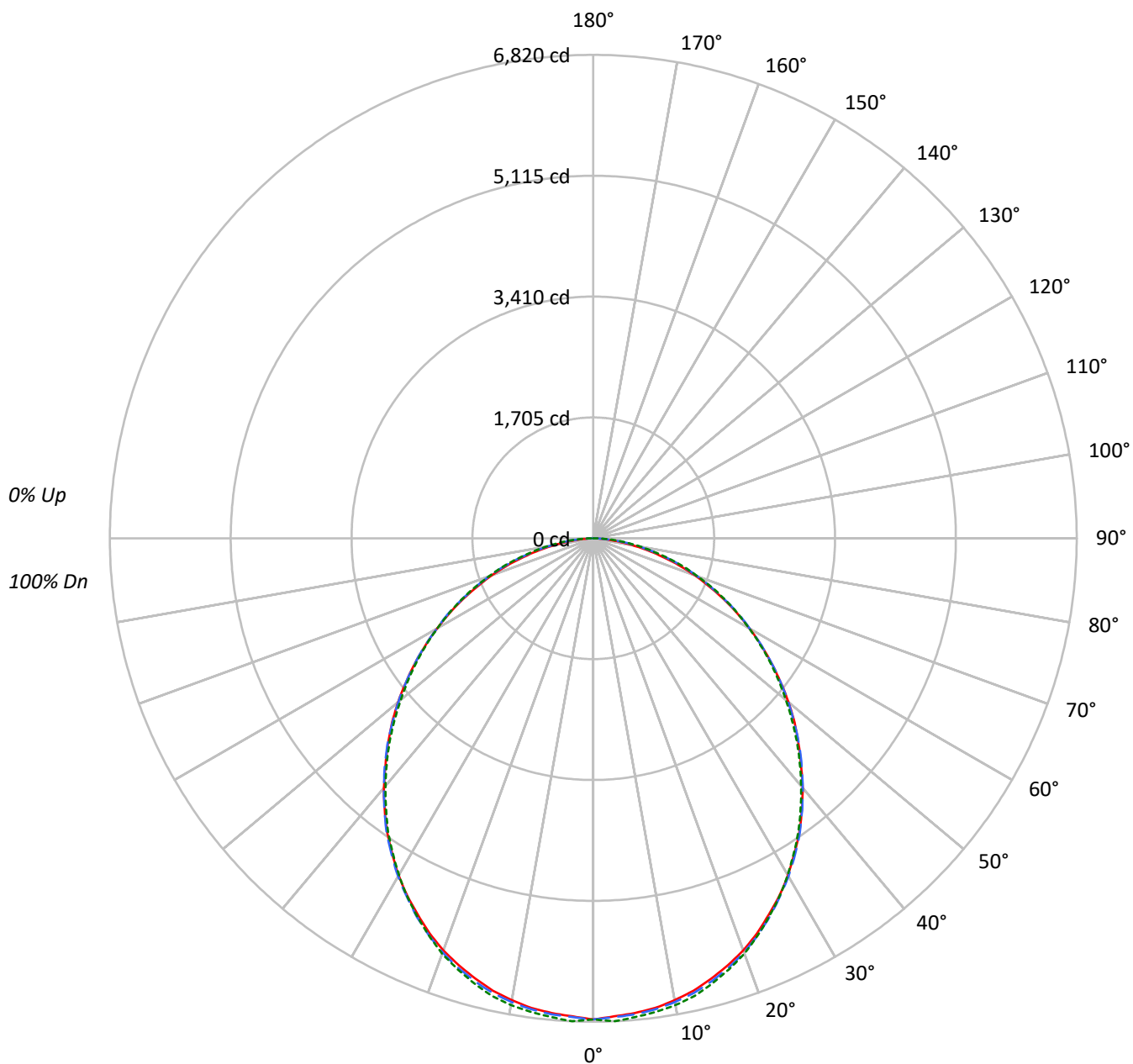
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10959	10959	10959
5°	10897	10927	10990
10°	10847	10891	10962
15°	10752	10810	10863
20°	10630	10681	10712
25°	10433	10493	10477
30°	10241	10269	10227
35°	9987	10013	9949
40°	9687	9687	9613
45°	9348	9374	9278
50°	9027	9012	8899
55°	8637	8638	8560
60°	8218	8228	8196
65°	7746	7823	7843
70°	7154	7350	7358
75°	6323	6732	6837
80°	5186	5896	6229
85°	3598	4950	5596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.9	3.6
10°-20°	1826.2	10.3
20°-30°	2713.8	15.3
30°-40°	3173.1	17.9
40°-50°	3163.7	17.8
50°-60°	2744.9	15.5
60°-70°	2027.5	11.4
70°-80°	1135.1	6.4
80°-90°	302.9	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°	5181.9	29.2
0°-40°	8355.0	47.1
0°-60°	14263.6	80.4
0°-90°	17729.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6788	6788	6788	6788	6788	
5°	6723	6766	6742	6772	6781	639
15°	6432	6477	6467	6498	6499	1814
25°	5856	5904	5890	5903	5881	2700
35°	5067	5112	5080	5079	5048	3165
45°	4094	4138	4105	4088	4063	3161
55°	3068	3089	3068	3063	3041	2744
65°	2027	2047	2048	2058	2053	2005
75°	1014	1044	1079	1087	1096	1079
85°	194	235	267	291	302	236
90°	0	4	5	12	11	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°	6787.5	6787.5	6787.5	6787.5	6787.5
2.5°	6750.4	6790.6	6762.5	6789.3	6820.4
5°	6723.2	6765.6	6742.2	6772.0	6780.6
7.5°	6683.6	6724.6	6702.1	6731.9	6741.0
10°	6616.2	6660.7	6643.0	6676.7	6686.1
12.5°	6537.6	6579.5	6567.8	6607.1	6613.6
15°	6432.3	6477.2	6467.3	6498.4	6498.8
17.5°	6315.8	6358.0	6350.7	6374.9	6374.0
20°	6186.8	6232.0	6216.5	6242.8	6234.6
22.5°	6033.9	6082.3	6062.8	6084.8	6064.1
25°	5856.5	5903.6	5889.8	5902.7	5881.1
27.5°	5684.7	5727.9	5699.3	5714.9	5692.0
30°	5493.0	5529.7	5507.8	5512.9	5485.3
32.5°	5277.7	5321.3	5294.5	5293.6	5264.3
35°	5067.0	5111.5	5080.0	5079.1	5047.6
37.5°	4833.9	4875.4	4838.3	4840.4	4803.7
40°	4596.1	4632.0	4596.1	4594.4	4560.7
42.5°	4338.0	4385.5	4352.7	4356.5	4311.7
45°	4094.1	4137.7	4105.4	4088.5	4063.4
47.5°	3851.1	3870.1	3843.3	3839.0	3803.6
50°	3593.8	3608.1	3587.8	3582.6	3542.9
52.5°	3328.0	3352.6	3326.6	3319.7	3293.4
55°	3068.1	3089.2	3068.5	3063.3	3040.9
57.5°	2806.5	2834.2	2813.0	2807.8	2789.7
60°	2545.0	2553.1	2548.0	2555.7	2538.1
62.5°	2285.1	2304.1	2310.2	2308.0	2294.2
65°	2027.4	2047.3	2047.7	2058.1	2052.9
67.5°	1763.7	1789.6	1797.0	1807.7	1812.4
70°	1515.5	1535.3	1557.0	1563.4	1558.6
72.5°	1265.6	1297.5	1321.7	1327.3	1347.6
75°	1013.5	1043.7	1079.1	1086.9	1095.9
77.5°	779.6	819.7	851.6	862.0	873.2
80°	557.7	602.1	634.1	648.3	669.9
82.5°	366.0	411.4	443.7	458.0	484.3
85°	194.2	234.8	267.2	290.9	302.1
87.5°	57.4	91.9	110.5	117.4	127.4
90°	0.0	4.3	5.2	11.6	10.8
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)