

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: P730565

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLI-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17210.0 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

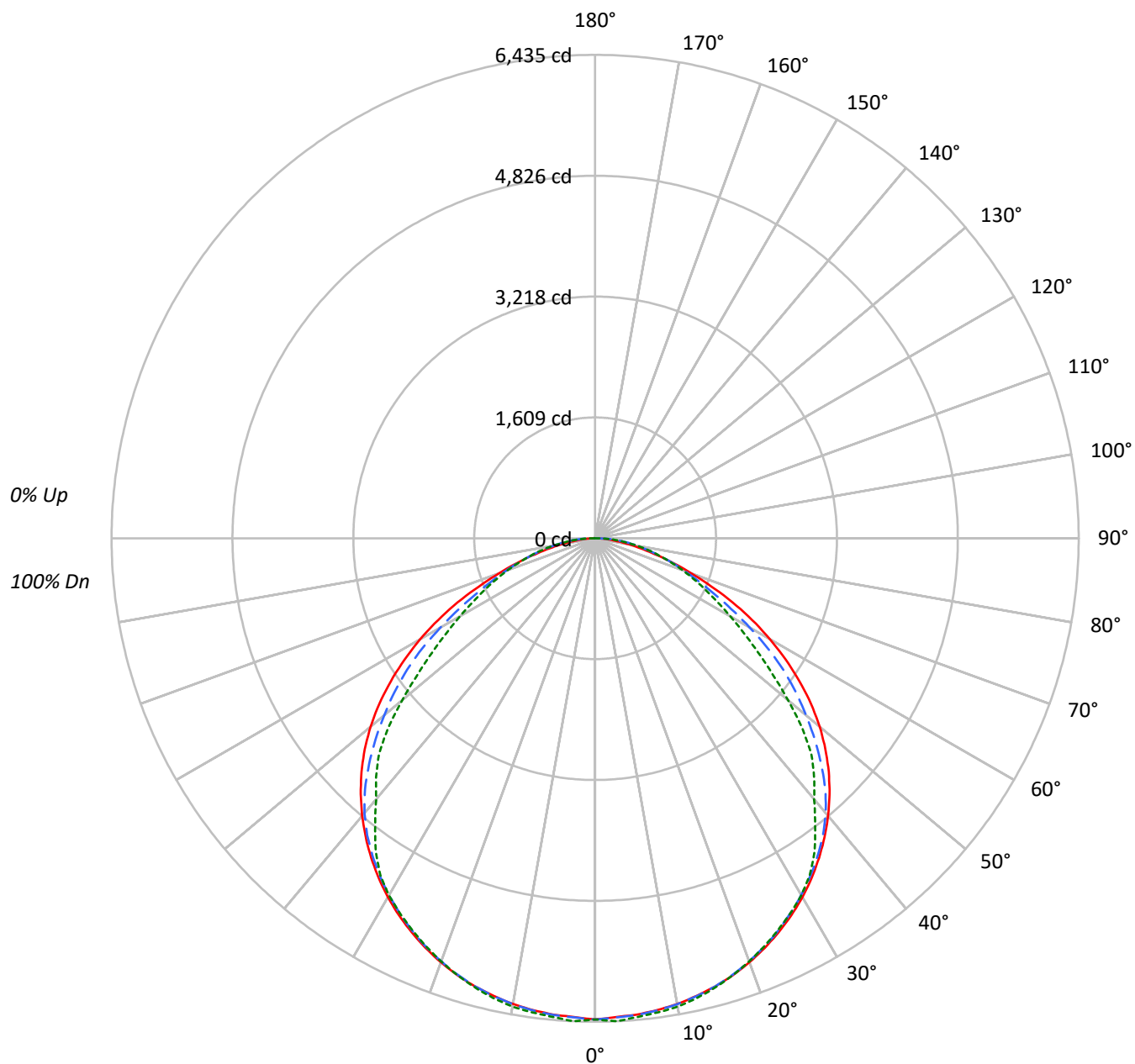
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10342	10342	10342
5°	10315	10322	10368
10°	10320	10326	10380
15°	10322	10320	10345
20°	10319	10296	10298
25°	10303	10265	10253
30°	10287	10225	10231
35°	10239	10175	10031
40°	10166	10062	9555
45°	10037	9715	9290
50°	9795	9198	8414
55°	9349	8602	7440
60°	8676	7675	6710
65°	7712	6645	6170
70°	6400	5939	5815
75°	5177	5435	5503
80°	4112	5199	5177
85°	3220	5585	5328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.5	3.5
10°-20°	1747.4	10.2
20°-30°	2664.4	15.5
30°-40°	3223.5	18.7
40°-50°	3265.2	19.0
50°-60°	2698.7	15.7
60°-70°	1782.5	10.4
70°-80°	929.5	5.4
80°-90°	291.4	1.7
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°	5019.2	29.2
0°-40°	8242.8	47.9
0°-60°	14206.7	82.5
0°-90°	17210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6406	6406	6406	6406	6406	
5°	6364	6403	6369	6396	6397	605
15°	6175	6206	6174	6193	6189	1744
25°	5784	5807	5762	5777	5755	2667
35°	5194	5201	5162	5155	5089	3249
45°	4396	4384	4255	4122	4069	3385
55°	3321	3272	3056	2759	2643	2960
65°	2019	1960	1739	1626	1615	1994
75°	830	844	871	883	882	904
85°	174	224	302	299	288	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6405.6	6405.6	6405.6	6405.6	6405.6
2.5°	6378.8	6416.4	6384.9	6412.6	6434.9
5°	6364.1	6402.6	6368.7	6396.4	6397.2
7.5°	6335.7	6374.1	6339.5	6367.2	6366.4
10°	6294.9	6331.1	6298.0	6331.1	6331.1
12.5°	6239.6	6274.9	6242.7	6273.4	6268.7
15°	6175.0	6206.5	6174.2	6193.4	6188.8
17.5°	6098.8	6127.3	6091.1	6107.3	6098.1
20°	6005.8	6031.9	5992.0	6012.7	5993.4
22.5°	5901.2	5925.8	5885.0	5900.5	5878.9
25°	5783.6	5806.6	5762.1	5776.6	5755.1
27.5°	5656.7	5677.4	5627.4	5645.2	5628.2
30°	5517.5	5527.5	5484.4	5507.5	5487.5
32.5°	5362.1	5368.3	5330.6	5351.3	5317.5
35°	5194.5	5201.4	5162.2	5155.3	5089.2
37.5°	5015.3	5018.4	4981.5	4919.2	4810.0
40°	4823.1	4821.6	4773.9	4630.1	4533.2
42.5°	4617.7	4617.0	4533.2	4369.4	4314.0
45°	4395.5	4384.0	4254.8	4122.5	4068.7
47.5°	4157.2	4144.8	3964.1	3858.8	3736.5
50°	3899.5	3878.0	3661.9	3518.1	3349.7
52.5°	3621.9	3588.8	3368.9	3136.7	2977.5
55°	3321.2	3272.0	3056.0	2759.2	2643.0
57.5°	3008.3	2935.2	2725.3	2436.2	2341.6
60°	2686.9	2605.3	2376.9	2139.3	2077.8
62.5°	2356.2	2275.5	2042.4	1863.3	1829.4
65°	2018.6	1960.1	1739.4	1626.4	1614.9
67.5°	1672.5	1651.8	1483.4	1425.7	1421.1
70°	1355.7	1351.9	1258.1	1228.8	1231.9
72.5°	1083.5	1078.9	1065.1	1050.4	1051.2
75°	829.8	844.3	871.3	882.8	882.1
77.5°	619.0	649.0	705.9	729.0	725.1
80°	442.2	486.8	559.1	580.6	556.8
82.5°	294.5	341.4	426.8	429.8	410.6
85°	173.8	223.8	301.5	299.1	287.6
87.5°	86.1	134.6	180.7	173.0	165.3
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)