

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: P730537

Luminaire Tested: **HBLED-LD5-18HE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18714.0 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

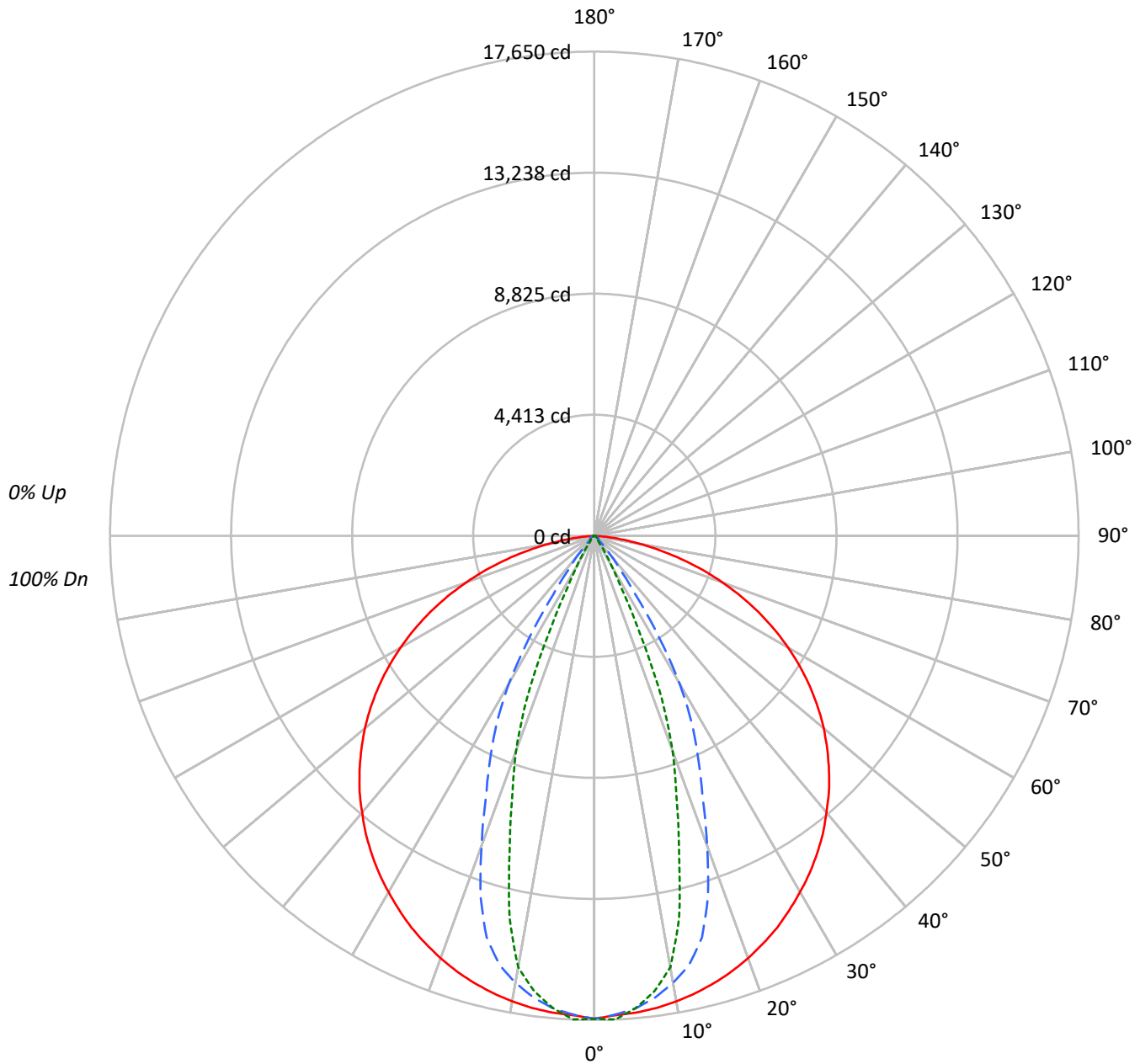
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28428	28428	28428
5°	28276	28026	28014
10°	28258	27128	26177
15°	28218	25344	19922
20°	28153	20660	14340
25°	28081	15975	7064
30°	27957	11610	2291
35°	27891	5151	590
40°	27745	2092	397
45°	27621	587	423
50°	27406	416	469
55°	27011	495	200
60°	26344	552	122
65°	25260	352	144
70°	23467	313	178
75°	20530	235	245
80°	15350	288	351
85°	7603	372	465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1634.0	8.7
10°-20°	4085.7	21.8
20°-30°	4425.4	23.6
30°-40°	3277.2	17.5
40°-50°	2360.4	12.6
50°-60°	1461.6	7.8
60°-70°	898.8	4.8
70°-80°	473.9	2.5
80°-90°	97.0	0.5
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°	10145.1	54.2
0°-40°	13422.3	71.7
0°-60°	17244.3	92.1
0°-90°	18714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17607	17607	17607	17607	17607	
5°	17446	17511	17292	17305	17284	###
15°	16882	16490	15162	12894	11918	4766
25°	15763	14438	8967	5641	3965	7263
35°	14150	9976	2613	615	299	8853
45°	12096	5620	257	186	185	9329
55°	9595	1158	176	159	71	8566
65°	6612	122	92	59	38	6524
75°	3291	28	38	50	39	3476
85°	410	11	20	30	25	620
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17607.0	17607.0	17607.0	17607.0	17607.0
2.5°	17493.9	17605.4	17473.8	17571.8	17649.7
5°	17446.2	17510.7	17292.1	17304.6	17284.5
7.5°	17362.4	17347.3	16979.6	16818.8	16748.5
10°	17236.0	17136.2	16546.6	16210.7	15966.2
12.5°	17072.6	16849.8	16006.4	14938.4	14275.1
15°	16881.6	16489.7	15162.1	12893.9	11918.1
17.5°	16653.8	16098.5	13781.7	10806.6	9935.5
20°	16384.9	15662.1	12024.4	9194.2	8345.8
22.5°	16085.1	15131.1	10317.5	7641.3	6431.0
25°	15762.6	14438.4	8967.2	5641.2	3965.1
27.5°	15389.9	13548.0	7700.8	3322.7	2023.6
30°	14995.4	12475.9	6227.5	1787.4	1228.8
32.5°	14597.5	11260.5	4406.6	1116.5	696.9
35°	14150.3	9975.7	2613.3	614.8	299.1
37.5°	13683.7	8798.1	1544.5	279.8	191.8
40°	13163.6	7721.8	992.5	185.9	188.4
42.5°	12661.1	6718.3	558.7	183.4	186.8
45°	12096.4	5620.2	257.1	185.9	185.1
47.5°	11512.7	4481.9	166.6	187.6	187.6
50°	10910.5	3204.7	165.8	191.8	186.8
52.5°	10274.7	1999.4	172.6	191.0	153.3
55°	9595.4	1157.5	175.9	159.1	71.2
57.5°	8891.9	682.6	177.6	91.3	40.2
60°	8158.1	377.7	170.9	67.8	37.7
62.5°	7401.8	180.1	134.8	63.7	36.8
65°	6611.9	122.3	92.1	58.6	37.7
67.5°	5791.9	94.6	72.8	55.3	38.5
70°	4971.1	70.3	66.2	55.3	37.7
72.5°	4136.9	47.8	55.3	56.1	37.7
75°	3290.9	28.5	37.7	49.5	39.3
77.5°	2452.4	17.6	29.3	51.1	47.8
80°	1650.9	15.1	31.0	47.8	37.7
82.5°	969.1	13.4	30.2	36.8	30.2
85°	410.4	10.9	20.1	30.2	25.1
87.5°	77.1	9.2	15.9	24.3	21.8
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)