

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: P730586

Luminaire Tested: **HBLED-LD5-18SE-N-CL-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17181.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

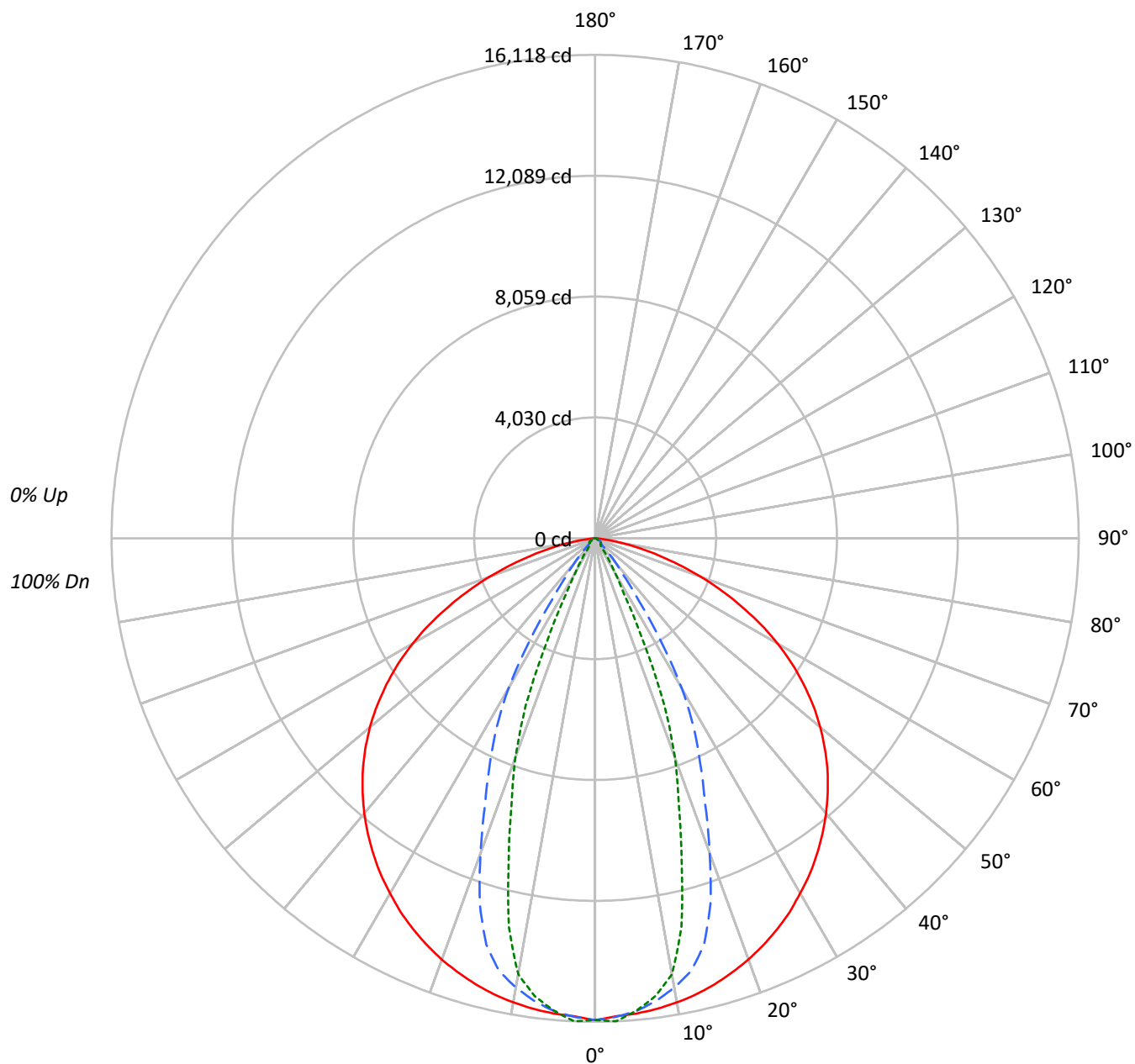
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25938	25938	25938
5°	25778	25644	25625
10°	25761	24935	24199
15°	25732	23448	18607
20°	25682	19188	13346
25°	25601	14784	6782
30°	25480	10790	2467
35°	25389	4955	859
40°	25233	2249	593
45°	25008	839	601
50°	24609	609	632
55°	23881	641	481
60°	22694	685	425
65°	20580	521	345
70°	17646	376	318
75°	13487	334	303
80°	8439	313	329
85°	2666	365	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1495.6	8.7
10°-20°	3767.6	21.9
20°-30°	4103.1	23.9
30°-40°	3069.3	17.9
40°-50°	2206.9	12.8
50°-60°	1355.4	7.9
60°-70°	779.9	4.5
70°-80°	348.1	2.0
80°-90°	55.2	0.3
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°	9366.2	54.5
0°-40°	12435.5	72.4
0°-60°	15997.8	93.1
0°-90°	17181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16065	16065	16065	16065	16065	
5°	15905	15980	15822	15837	15811	###
15°	15394	15099	14028	12047	11132	4345
25°	14370	13340	8299	5324	3807	6624
35°	12881	9238	2514	739	436	8057
45°	10952	5190	368	272	263	8437
55°	8484	1078	228	220	171	7564
65°	5387	118	136	113	90	5332
75°	2162	72	54	55	48	2346
85°	144	14	20	26	24	287
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16064.6	16064.6	16064.6	16064.6	16064.6
2.5°	15952.9	16057.3	15969.3	16048.2	16118.1
5°	15905.2	15980.0	15822.2	15836.9	15810.7
7.5°	15823.0	15841.1	15555.9	15445.7	15392.2
10°	15712.8	15664.4	15208.9	14946.7	14760.1
12.5°	15573.9	15413.6	14777.3	13841.0	13282.9
15°	15393.9	15098.8	14027.6	12047.3	11131.5
17.5°	15179.3	14769.9	12786.3	10040.6	9248.2
20°	14946.7	14406.6	11167.6	8537.1	7767.6
22.5°	14672.1	13942.1	9571.2	7100.1	6043.8
25°	14370.4	13339.6	8298.7	5324.5	3807.0
27.5°	14044.9	12544.6	7120.7	3265.2	2058.4
30°	13666.8	11577.1	5787.3	1832.4	1323.5
32.5°	13297.6	10449.2	4134.2	1220.7	845.9
35°	12880.8	9238.3	2513.9	739.0	435.7
37.5°	12439.4	8137.5	1573.4	402.0	300.8
40°	11971.7	7093.5	1067.0	285.3	281.2
42.5°	11471.8	6149.0	668.3	271.3	280.3
45°	10952.3	5190.5	367.5	272.1	263.1
47.5°	10388.4	4149.8	256.5	257.3	256.5
50°	9797.3	2976.7	242.5	254.0	251.6
52.5°	9160.2	1848.0	243.3	248.3	222.8
55°	8483.7	1078.5	227.7	220.3	171.0
57.5°	7772.5	672.4	222.8	181.7	153.7
60°	7027.8	355.2	212.1	163.6	131.5
62.5°	6234.5	175.1	170.1	139.8	107.7
65°	5386.9	118.4	136.5	113.4	90.4
67.5°	4568.2	106.8	102.8	92.9	78.9
70°	3737.9	97.8	79.7	81.4	67.4
72.5°	2923.3	88.8	64.1	69.9	56.7
75°	2162.0	71.5	53.5	55.0	48.5
77.5°	1504.3	55.9	42.0	46.9	45.2
80°	907.6	35.4	33.7	38.6	35.4
82.5°	439.8	23.0	26.3	30.4	27.9
85°	143.9	14.0	19.7	25.5	23.9
87.5°	18.1	8.2	16.4	22.2	20.5
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)