

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: P730518

Luminaire Tested: **HBLED-LD5-18HE-N-CL-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730518
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-LD5-18HE-N-CL-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17191.0 lumens
Efficiency: N/A
Efficacy: 156.0 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

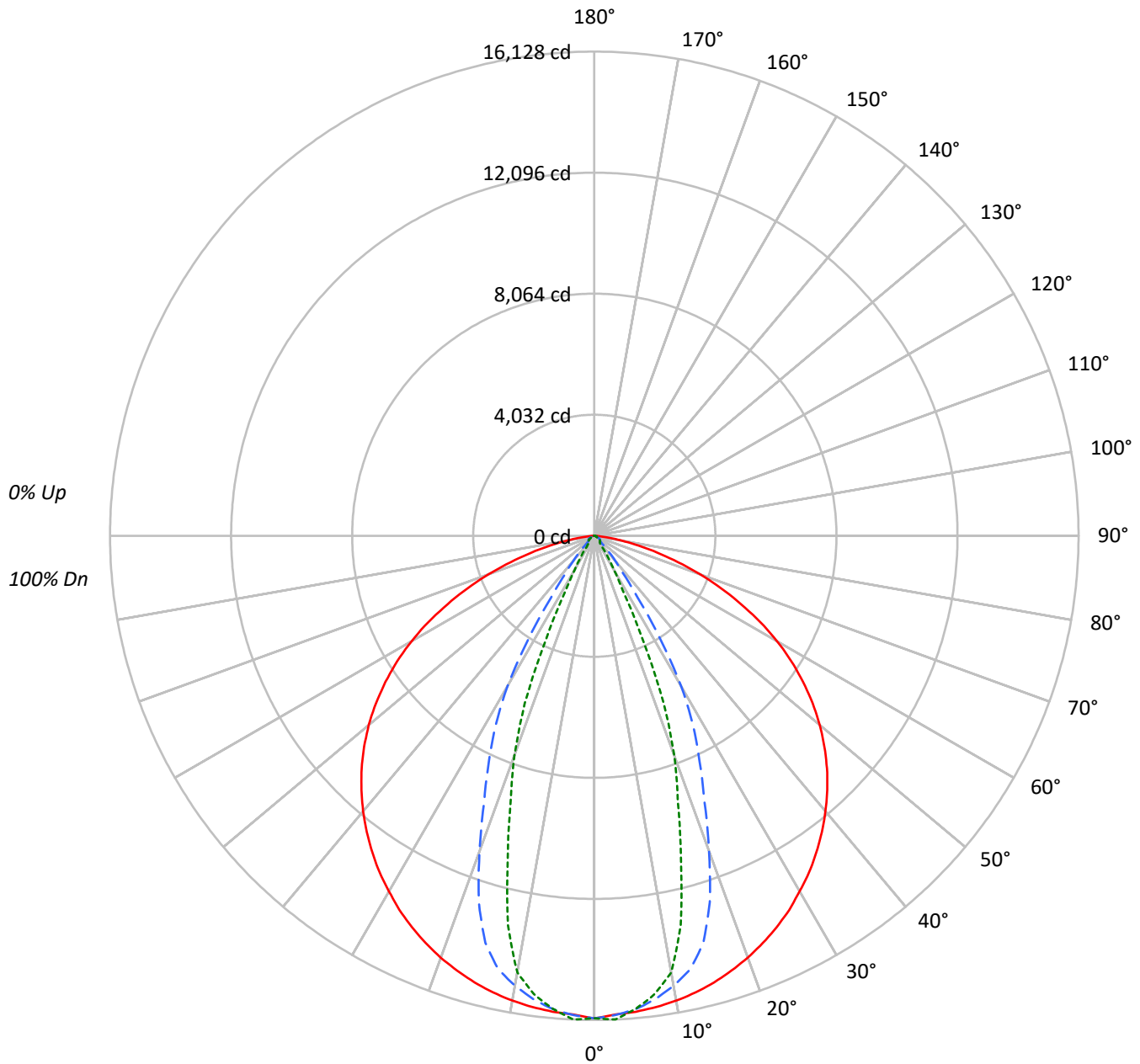
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25953	25953	25953
5°	25794	25659	25640
10°	25776	24950	24213
15°	25747	23461	18618
20°	25696	19199	13354
25°	25616	14793	6786
30°	25495	10796	2469
35°	25403	4958	859
40°	25247	2250	593
45°	25023	840	601
50°	24624	610	632
55°	23895	641	482
60°	22707	685	425
65°	20593	522	346
70°	17656	377	319
75°	13495	334	303
80°	8444	313	329
85°	2668	367	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.5	8.7
10°-20°	3769.8	21.9
20°-30°	4105.4	23.9
30°-40°	3071.1	17.9
40°-50°	2208.2	12.8
50°-60°	1356.2	7.9
60°-70°	780.4	4.5
70°-80°	348.3	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°	9371.7	54.5
0°-40°	12442.8	72.4
0°-60°	16007.1	93.1
0°-90°	17191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16074	16074	16074	16074	16074	
5°	15914	15989	15831	15846	15820	###
15°	15403	15108	14036	12054	11138	4348
25°	14379	13347	8304	5328	3809	6628
35°	12888	9244	2515	740	436	8062
45°	10959	5194	368	272	263	8442
55°	8489	1079	228	220	171	7568
65°	5390	118	137	114	90	5336
75°	2163	72	54	55	49	2348
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°	16074.0	16074.0	16074.0	16074.0	16074.0
2.5°	15962.2	16066.6	15978.6	16057.6	16127.5
5°	15914.5	15989.3	15831.4	15846.2	15819.9
7.5°	15832.2	15850.3	15564.9	15454.7	15401.2
10°	15722.0	15673.5	15217.8	14955.4	14768.7
12.5°	15583.0	15422.6	14785.9	13849.1	13290.6
15°	15402.9	15107.6	14035.8	12054.3	11138.0
17.5°	15188.2	14778.5	12793.7	10046.4	9253.6
20°	14955.4	14415.0	11174.1	8542.1	7772.1
22.5°	14680.7	13950.2	9576.8	7104.2	6047.3
25°	14378.8	13347.3	8303.5	5327.6	3809.2
27.5°	14053.1	12551.9	7124.8	3267.1	2059.6
30°	13674.7	11583.8	5790.7	1833.5	1324.3
32.5°	13305.4	10455.3	4136.6	1221.4	846.4
35°	12888.3	9243.7	2515.3	739.5	435.9
37.5°	12446.6	8142.3	1574.3	402.2	301.0
40°	11978.6	7097.7	1067.6	285.5	281.3
42.5°	11478.5	6152.6	668.7	271.4	280.5
45°	10958.7	5193.5	367.7	272.3	263.2
47.5°	10394.4	4152.2	256.7	257.4	256.7
50°	9803.0	2978.4	242.7	254.2	251.7
52.5°	9165.5	1849.1	243.5	248.4	222.9
55°	8488.6	1079.1	227.8	220.5	171.1
57.5°	7777.1	672.8	222.9	181.8	153.8
60°	7031.9	355.4	212.2	163.7	131.6
62.5°	6238.1	175.2	170.2	139.8	107.8
65°	5390.1	118.5	136.6	113.5	90.5
67.5°	4570.8	106.9	102.9	92.9	79.0
70°	3740.1	97.9	79.8	81.4	67.5
72.5°	2925.0	88.8	64.1	69.9	56.7
75°	2163.3	71.6	53.5	55.1	48.6
77.5°	1505.2	55.9	42.0	46.9	45.2
80°	908.1	35.4	33.7	38.6	35.4
82.5°	440.1	23.0	26.3	30.4	27.9
85°	144.0	14.0	19.8	25.5	23.9
87.5°	18.1	8.3	16.4	22.2	20.6
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)