

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: P730536

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730536
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-L840
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18354.0 lumens
Efficiency: N/A
Efficacy: 166.6 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

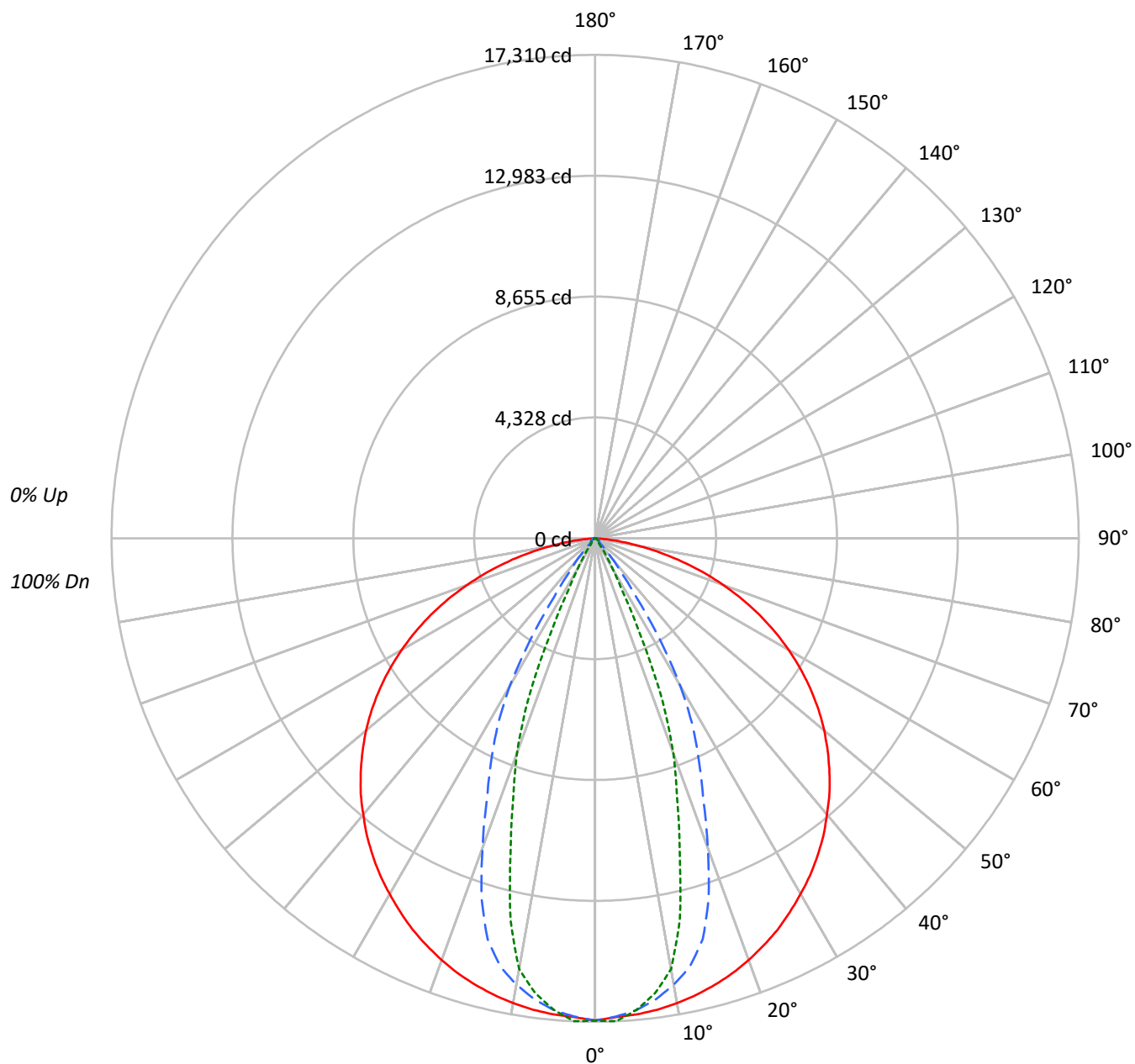
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27881	27881	27881
5°	27732	27487	27475
10°	27715	26606	25673
15°	27676	24857	19538
20°	27611	20263	14064
25°	27541	15668	6928
30°	27419	11387	2247
35°	27354	5052	578
40°	27211	2052	390
45°	27089	576	414
50°	26878	408	460
55°	26491	486	197
60°	25837	541	119
65°	24774	345	141
70°	23016	306	175
75°	20135	231	241
80°	15054	283	344
85°	7456	365	456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1602.5	8.7
10°-20°	4007.1	21.8
20°-30°	4340.3	23.6
30°-40°	3214.2	17.5
40°-50°	2315.0	12.6
50°-60°	1433.5	7.8
60°-70°	881.5	4.8
70°-80°	464.7	2.5
80°-90°	95.1	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°	9949.9	54.2
0°-40°	13164.1	71.7
0°-60°	16912.6	92.1
0°-90°	18354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17268	17268	17268	17268	17268	
5°	17110	17174	16959	16972	16952	###
15°	16557	16172	14870	12646	11689	4674
25°	15459	14161	8795	5533	3889	7123
35°	13878	9784	2563	603	293	8682
45°	11864	5512	252	182	182	9149
55°	9411	1135	172	156	70	8401
65°	6485	120	90	58	37	6398
75°	3228	28	37	48	39	3409
85°	402	11	20	30	25	608
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17268.3	17268.3	17268.3	17268.3	17268.3
2.5°	17157.4	17266.7	17137.7	17233.8	17310.2
5°	17110.5	17173.8	16959.4	16971.7	16952.0
7.5°	17028.4	17013.6	16653.0	16495.3	16426.3
10°	16904.4	16806.6	16228.3	15898.9	15659.0
12.5°	16744.2	16525.7	15698.5	14651.1	14000.5
15°	16556.9	16172.4	14870.4	12645.9	11688.8
17.5°	16333.4	15788.8	13516.6	10598.7	9744.4
20°	16069.7	15360.8	11793.1	9017.4	8185.2
22.5°	15775.6	14840.0	10119.0	7494.3	6307.3
25°	15459.4	14160.7	8794.7	5532.6	3888.9
27.5°	15093.8	13287.4	7552.7	3258.8	1984.7
30°	14706.9	12235.9	6107.7	1753.0	1205.1
32.5°	14316.7	11043.9	4321.8	1095.0	683.5
35°	13878.1	9783.8	2563.0	603.0	293.3
37.5°	13420.5	8628.8	1514.8	274.4	188.1
40°	12910.4	7573.2	973.4	182.3	184.8
42.5°	12417.5	6589.1	548.0	179.9	183.2
45°	11863.7	5512.1	252.2	182.3	181.5
47.5°	11291.2	4395.7	163.4	184.0	184.0
50°	10700.6	3143.0	162.6	188.1	183.2
52.5°	10077.1	1960.9	169.2	187.3	150.3
55°	9410.9	1135.3	172.5	156.1	69.9
57.5°	8720.8	669.5	174.2	89.5	39.5
60°	8001.2	370.5	167.6	66.5	37.0
62.5°	7259.4	176.6	132.2	62.5	36.1
65°	6484.7	119.9	90.3	57.5	37.0
67.5°	5680.5	92.8	71.4	54.2	37.8
70°	4875.5	69.0	64.9	54.2	37.0
72.5°	4057.3	46.8	54.2	55.0	37.0
75°	3227.6	27.9	37.0	48.5	38.6
77.5°	2405.3	17.2	28.7	50.1	46.8
80°	1619.1	14.8	30.4	46.8	37.0
82.5°	950.5	13.2	29.6	36.1	29.6
85°	402.5	10.7	19.7	29.6	24.6
87.5°	75.6	9.0	15.6	23.8	21.4
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)