

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: P731061

Luminaire Tested: **HBLED-LD5-48HE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731061
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-LD5-48HE-N-UNV-L740
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48251.0 lumens
Efficiency: N/A
Efficacy: 183.5 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

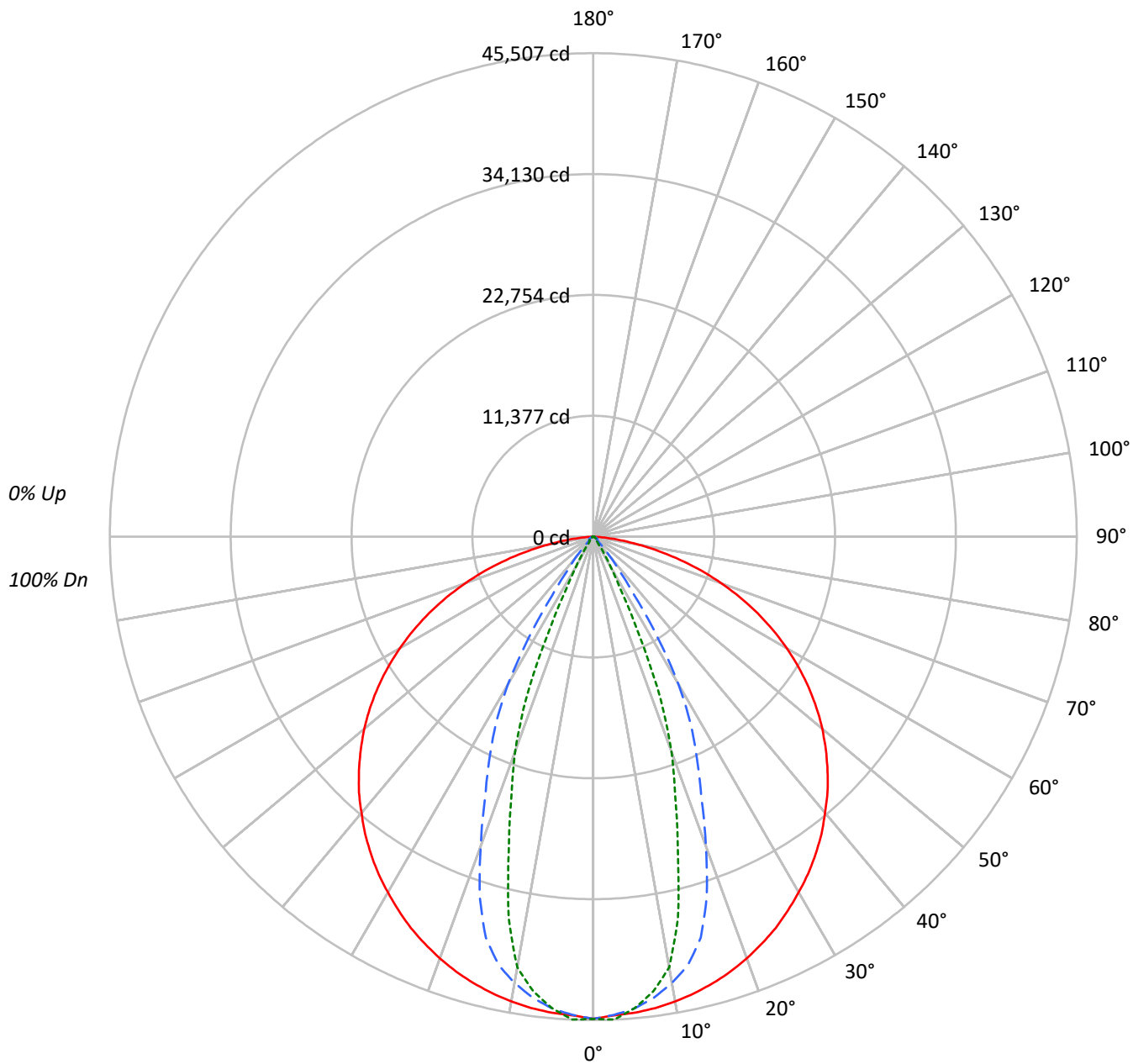
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	73297	73297	73297
5°	72905	72261	72229
10°	72859	69945	67492
15°	72756	65345	51365
20°	72587	53270	36973
25°	72402	41189	18213
30°	72082	29935	5907
35°	71912	13281	1520
40°	71536	5394	1024
45°	71215	1514	1090
50°	70661	1074	1210
55°	69643	1277	517
60°	67923	1422	314
65°	65130	907	371
70°	60506	806	459
75°	52931	606	633
80°	39577	743	904
85°	19603	960	1199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4212.9	8.7
10°-20°	10534.3	21.8
20°-30°	11410.3	23.6
30°-40°	8449.8	17.5
40°-50°	6086.0	12.6
50°-60°	3768.4	7.8
60°-70°	2317.5	4.8
70°-80°	1221.7	2.5
80°-90°	250.1	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°	26157.5	54.2
0°-40°	34607.2	71.7
0°-60°	44461.7	92.1
0°-90°	48251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	45397	45397	45397	45397	45397	
5°	44982	45148	44585	44617	44565	###
15°	43526	42516	39093	33245	30729	12287
25°	40641	37227	23120	14545	10224	18726
35°	36484	25721	6738	1585	771	22825
45°	31189	14491	663	479	477	24053
55°	24740	2984	454	410	184	22086
65°	17048	315	238	151	97	16820
75°	8485	74	97	128	101	8962
85°	1058	28	52	78	65	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	45396.7	45396.7	45396.7	45396.7	45396.7
2.5°	45105.2	45392.5	45053.4	45306.1	45506.9
5°	44982.1	45148.4	44584.7	44617.1	44565.3
7.5°	44766.1	44727.3	43779.2	43364.6	43183.2
10°	44440.1	44183.0	42662.8	41796.8	41166.1
12.5°	44019.0	43444.5	41269.9	38516.3	36806.0
15°	43526.5	42515.9	39092.9	33244.8	30728.8
17.5°	42939.1	41507.3	35533.9	27863.0	25617.2
20°	42245.8	40382.1	31003.0	23705.9	21518.3
22.5°	41472.7	39013.0	26601.9	19701.9	16581.3
25°	40641.3	37227.1	23120.5	14544.8	10223.5
27.5°	39680.3	34931.4	19855.3	8567.2	5217.6
30°	38663.2	32167.0	16056.5	4608.5	3168.2
32.5°	37637.4	29033.5	11361.6	2878.7	1796.7
35°	36484.2	25720.7	6737.9	1585.1	771.1
37.5°	35281.1	22684.4	3982.2	721.4	494.6
40°	33940.2	19909.3	2559.0	479.3	485.8
42.5°	32644.5	17322.1	1440.5	472.9	481.6
45°	31188.7	14490.8	663.0	479.3	477.3
47.5°	29683.5	11555.9	429.7	483.7	483.7
50°	28130.9	8262.7	427.6	494.6	481.6
52.5°	26491.7	5155.0	444.9	492.5	395.2
55°	24740.3	2984.5	453.5	410.3	183.6
57.5°	22926.2	1760.0	457.8	235.4	103.7
60°	21034.3	973.9	440.5	174.9	97.2
62.5°	19084.2	464.3	347.7	164.2	94.9
65°	17047.7	315.3	237.5	151.1	97.2
67.5°	14933.6	243.9	187.8	142.5	99.3
70°	12817.1	181.3	170.7	142.5	97.2
72.5°	10666.3	123.1	142.5	144.6	97.2
75°	8484.9	73.5	97.2	127.5	101.4
77.5°	6323.2	45.3	75.5	131.7	123.1
80°	4256.5	38.8	79.9	123.1	97.2
82.5°	2498.7	34.6	77.8	94.9	77.8
85°	1058.2	28.2	51.8	77.8	64.7
87.5°	198.7	23.8	41.1	62.6	56.1
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)