

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: P731063

Luminaire Tested: **HBLED-LD5-48HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731063
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-L835
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44767.0 lumens
Efficiency: N/A
Efficacy: 170.2 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

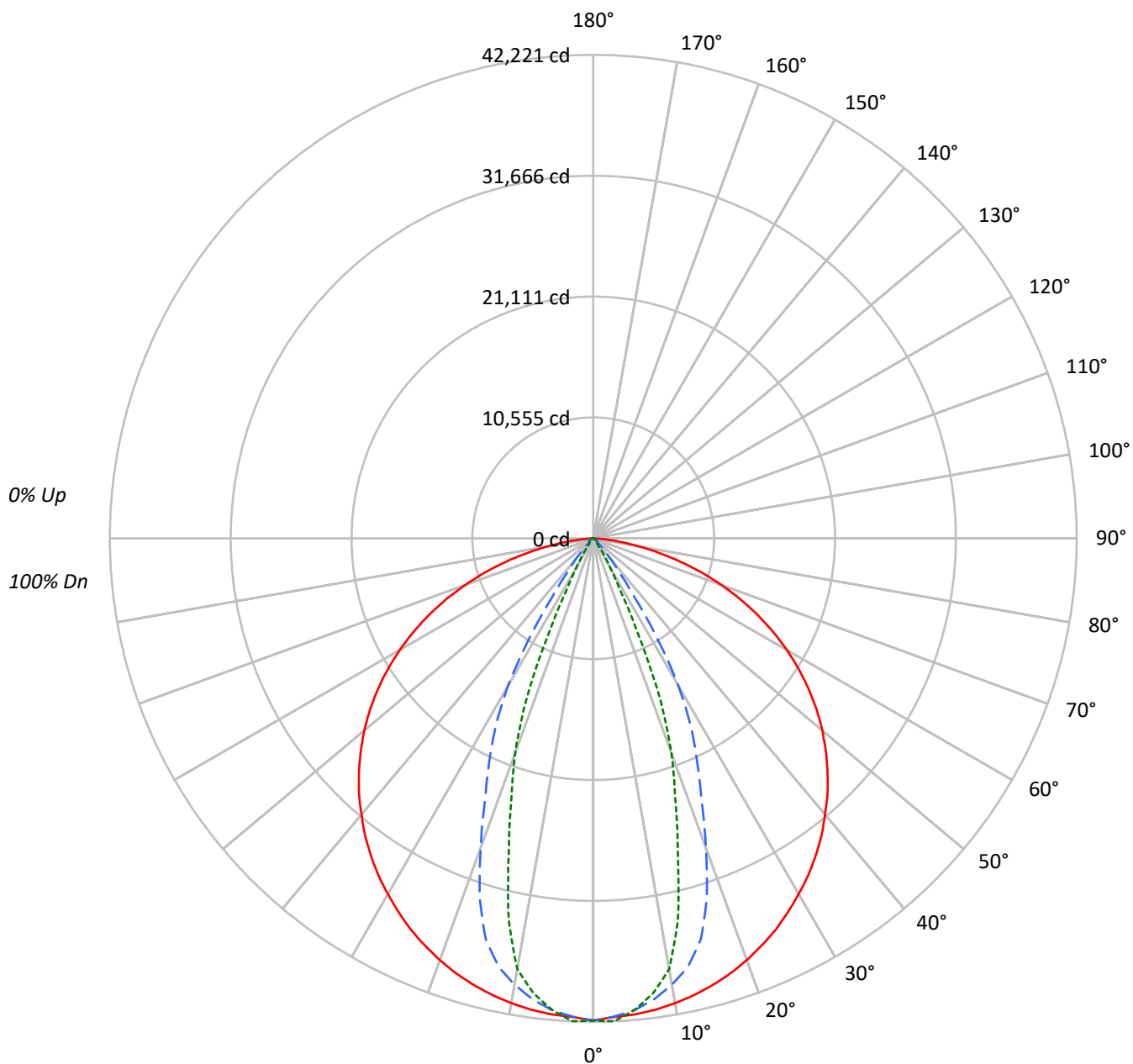
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	68004	68004	68004
5°	67641	67043	67014
10°	67599	64895	62618
15°	67503	60627	47656
20°	67346	49423	34303
25°	67175	38215	16898
30°	66878	27774	5480
35°	66720	12322	1410
40°	66370	5004	950
45°	66073	1405	1011
50°	65559	996	1123
55°	64614	1184	480
60°	63019	1320	291
65°	60427	842	345
70°	56138	748	426
75°	49110	563	587
80°	36719	690	839
85°	18188	889	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3908.7	8.7
10°-20°	9773.7	21.8
20°-30°	10586.4	23.6
30°-40°	7839.7	17.5
40°-50°	5646.6	12.6
50°-60°	3496.3	7.8
60°-70°	2150.2	4.8
70°-80°	1133.5	2.5
80°-90°	232.0	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°	24268.7	54.2
0°-40°	32108.4	71.7
0°-60°	41251.3	92.1
0°-90°	44767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	42119	42119	42119	42119	42119	
5°	41734	41888	41366	41396	41348	###
15°	40384	39446	36270	30844	28510	11400
25°	37707	34539	21451	13495	9485	17374
35°	33850	23864	6251	1471	715	21177
45°	28937	13444	615	445	443	22316
55°	22954	2769	421	381	170	20491
65°	15817	292	220	140	90	15606
75°	7872	68	90	118	94	8315
85°	982	26	48	72	60	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	42118.8	42118.8	42118.8	42118.8	42118.8
2.5°	41848.3	42114.9	41800.3	42034.8	42221.0
5°	41734.1	41888.4	41365.5	41395.5	41347.5
7.5°	41533.7	41497.7	40618.1	40233.4	40065.2
10°	41231.3	40992.8	39582.3	38778.8	38193.7
12.5°	40840.6	40307.6	38289.9	35735.2	34148.4
15°	40383.7	39446.0	36270.2	30844.4	28510.0
17.5°	39838.6	38510.3	32968.1	25851.1	23767.5
20°	39195.5	37466.3	28764.4	21994.2	19964.5
22.5°	38478.1	36196.0	24681.1	18279.3	15384.0
25°	37706.8	34539.1	21451.1	13494.6	9485.3
27.5°	36815.2	32409.1	18421.6	7948.6	4840.9
30°	35871.5	29844.4	14897.1	4275.7	2939.4
32.5°	34919.7	26937.1	10541.2	2670.9	1667.0
35°	33849.8	23863.5	6251.4	1470.7	715.4
37.5°	32733.6	21046.4	3694.7	669.3	458.9
40°	31489.5	18471.8	2374.3	444.7	450.7
42.5°	30287.4	16071.4	1336.5	438.7	446.9
45°	28936.7	13444.4	615.1	444.7	442.8
47.5°	27540.2	10721.5	398.6	448.8	448.8
50°	26099.7	7666.1	396.7	458.9	446.9
52.5°	24578.9	4782.8	412.8	456.9	366.7
55°	22953.9	2769.0	420.7	380.6	170.4
57.5°	21270.8	1632.9	424.8	218.4	96.2
60°	19515.5	903.6	408.7	162.2	90.2
62.5°	17706.2	430.8	322.6	152.4	88.1
65°	15816.8	292.5	220.3	140.2	90.2
67.5°	13855.3	226.3	174.3	132.2	92.2
70°	11891.7	168.2	158.4	132.2	90.2
72.5°	9896.1	114.2	132.2	134.2	90.2
75°	7872.3	68.2	90.2	118.3	94.1
77.5°	5866.6	42.0	70.1	122.2	114.2
80°	3949.1	36.0	74.2	114.2	90.2
82.5°	2318.3	32.1	72.2	88.1	72.2
85°	981.8	26.1	48.0	72.2	60.0
87.5°	184.3	22.1	38.1	58.1	52.1
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)