

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: P731093

Luminaire Tested: **HBLED-LD5-48SE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-N-CLI-UNV-L835
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40940.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

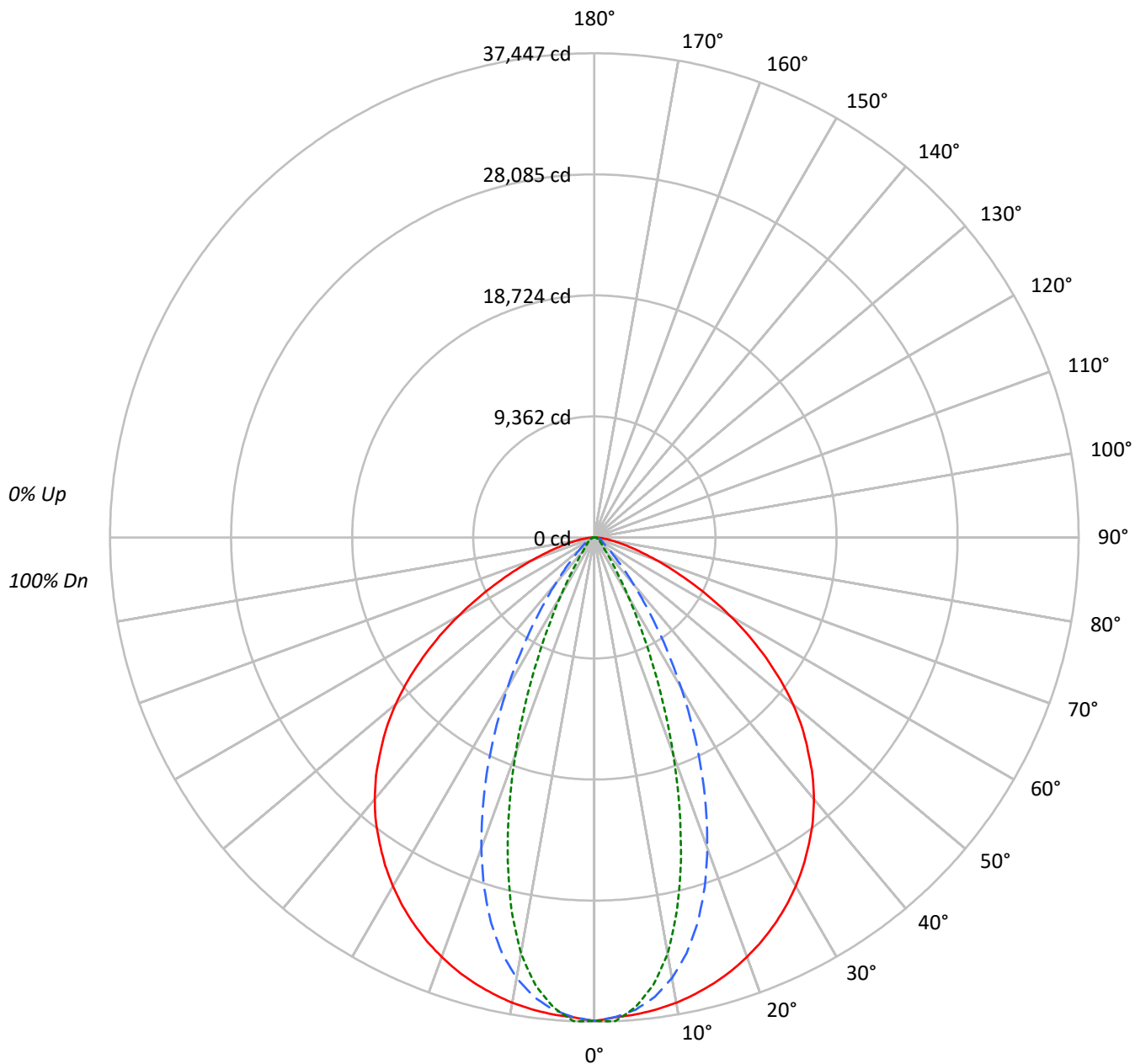
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	60379	60379	60379
5°	60015	59418	59106
10°	59915	56728	53531
15°	59674	51565	43232
20°	59316	43877	30641
25°	58785	34598	18513
30°	58071	24970	9515
35°	57023	16325	4752
40°	55670	9806	2773
45°	53358	5856	2074
50°	50326	3829	1741
55°	45548	2905	1519
60°	39141	2474	1386
65°	31484	2257	1309
70°	23719	2418	1302
75°	17447	2298	1339
80°	12764	2288	1466
85°	9561	2775	1895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3443.9	8.4
10°-20°	8567.8	20.9
20°-30°	9490.1	23.2
30°-40°	7603.3	18.6
40°-50°	5427.8	13.3
50°-60°	3486.3	8.5
60°-70°	1889.3	4.6
70°-80°	807.6	2.0
80°-90°	223.9	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°	21501.8	52.5
0°-40°	29105.1	71.1
0°-60°	38019.2	92.9
0°-90°	40940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37396	37396	37396	37396	37396	
5°	37029	37167	36661	36545	36468	###
15°	35700	34583	30849	27262	25864	10073
25°	32998	29096	19421	12653	10392	15201
35°	28930	20926	8282	3340	2411	18088
45°	23368	12080	2565	1091	908	18012
55°	16181	5401	1032	634	540	14420
65°	8241	2218	591	408	343	8253
75°	2797	812	368	256	215	3108
85°	516	215	150	124	102	630
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	37395.7	37395.7	37395.7	37395.7	37395.7
2.5°	37149.5	37382.0	37131.7	37287.3	37446.8
5°	37029.3	37167.3	36661.0	36544.7	36468.1
7.5°	36820.5	36781.1	35829.9	35213.4	34915.8
10°	36544.7	36225.7	34600.7	33245.7	32650.9
12.5°	36150.9	35493.1	32936.4	30557.1	29548.7
15°	35699.8	34583.1	30848.6	27262.0	25863.5
17.5°	35160.1	33519.4	28353.0	23728.4	21882.8
20°	34522.0	32235.3	25536.5	19974.2	17833.1
22.5°	33809.1	30754.1	22520.9	16231.8	13935.3
25°	32997.5	29095.6	19420.8	12653.1	10391.8
27.5°	32121.1	27254.1	16338.3	9454.3	7392.0
30°	31148.0	25260.8	13393.5	6817.0	5103.4
32.5°	30086.3	23141.5	10657.9	4794.1	3490.3
35°	28930.2	20925.6	8282.3	3340.5	2410.8
37.5°	27746.4	18664.4	6255.6	2361.5	1729.4
40°	26412.9	16411.0	4652.4	1729.4	1315.6
42.5°	24981.1	14201.2	3443.0	1331.4	1065.6
45°	23367.9	12079.8	2564.6	1091.2	908.1
47.5°	21804.1	10102.4	1948.0	929.6	789.8
50°	20035.3	8317.9	1524.5	811.5	693.2
52.5°	18158.2	6748.1	1236.9	715.0	610.6
55°	16180.6	5400.7	1032.0	634.2	539.7
57.5°	14177.5	4278.0	882.4	565.2	480.7
60°	12121.2	3421.3	766.2	506.2	429.3
62.5°	10114.2	2735.9	669.6	455.0	384.1
65°	8241.0	2217.7	590.9	407.7	342.7
67.5°	6509.6	1753.0	551.5	366.3	309.3
70°	5024.5	1364.9	512.2	326.9	275.8
72.5°	3807.3	1047.9	453.1	291.5	244.3
75°	2796.8	811.5	368.4	256.1	214.6
77.5°	2001.2	624.5	299.4	222.5	185.2
80°	1372.8	464.9	246.1	191.0	157.7
82.5°	892.4	329.0	198.9	157.7	129.9
85°	516.1	214.6	149.8	124.1	102.3
87.5°	222.5	118.1	102.3	92.6	78.7
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)