

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: P731057

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731057
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-LD5-48HE-N-CLI-UNV-L835
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41420.0 lumens
Efficiency: N/A
Efficacy: 157.5 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

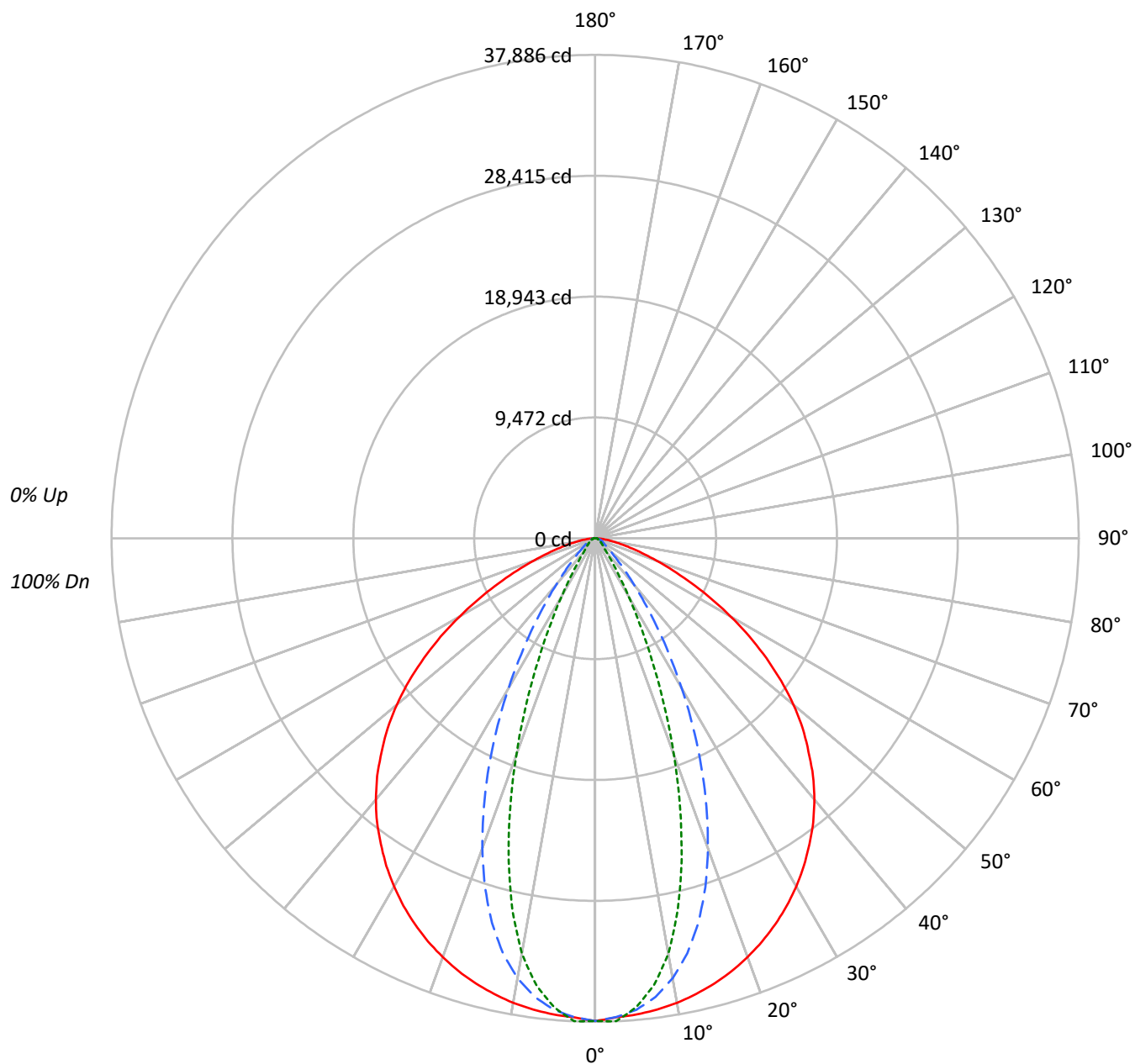
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61086	61086	61086
5°	60719	60115	59799
10°	60617	57393	54159
15°	60373	52169	43739
20°	60011	44391	31000
25°	59474	35004	18730
30°	58752	25263	9626
35°	57691	16516	4808
40°	56323	9921	2806
45°	53983	5924	2098
50°	50916	3874	1762
55°	46082	2939	1537
60°	39600	2503	1402
65°	31854	2284	1325
70°	23997	2446	1317
75°	17652	2325	1355
80°	12914	2315	1483
85°	9674	2808	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3484.3	8.4
10°-20°	8668.2	20.9
20°-30°	9601.4	23.2
30°-40°	7692.4	18.6
40°-50°	5491.4	13.3
50°-60°	3527.2	8.5
60°-70°	1911.5	4.6
70°-80°	817.0	2.0
80°-90°	226.6	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°	21753.9	52.5
0°-40°	29446.3	71.1
0°-60°	38464.9	92.9
0°-90°	41420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37834	37834	37834	37834	37834	
5°	37464	37603	37091	36973	36896	###
15°	36118	34989	31210	27582	26167	10191
25°	33384	29437	19648	12801	10514	15380
35°	29269	21171	8379	3380	2439	18300
45°	23642	12221	2595	1104	919	18223
55°	16370	5464	1044	642	546	14589
65°	8338	2244	598	412	347	8349
75°	2830	821	373	259	217	3144
85°	522	217	152	126	104	638
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	37834.1	37834.1	37834.1	37834.1	37834.1
2.5°	37585.1	37820.3	37567.0	37724.5	37885.9
5°	37463.5	37603.1	37090.8	36973.2	36895.6
7.5°	37252.2	37212.4	36250.0	35626.2	35325.2
10°	36973.2	36650.4	35006.4	33635.5	33033.7
12.5°	36574.7	35909.2	33322.5	30915.3	29895.1
15°	36118.4	34988.6	31210.3	27581.6	26166.7
17.5°	35572.3	33912.4	28685.4	24006.6	22139.4
20°	34926.7	32613.2	25835.9	20208.4	18042.2
22.5°	34205.4	31114.7	22785.0	16422.1	14098.7
25°	33384.4	29436.7	19648.5	12801.4	10513.7
27.5°	32497.7	27573.6	16529.8	9565.2	7478.7
30°	31513.1	25556.9	13550.6	6897.0	5163.2
32.5°	30439.1	23412.8	10782.8	4850.3	3531.2
35°	29269.4	21170.9	8379.4	3379.6	2439.1
37.5°	28071.7	18883.2	6328.9	2389.2	1749.7
40°	26722.6	16603.4	4706.9	1749.7	1331.1
42.5°	25273.9	14367.7	3483.4	1347.0	1078.1
45°	23641.9	12221.4	2594.6	1104.0	918.7
47.5°	22059.7	10220.8	1970.8	940.5	799.1
50°	20270.2	8415.4	1542.3	821.1	701.4
52.5°	18371.1	6827.2	1251.4	723.4	617.7
55°	16370.3	5464.0	1044.1	641.6	546.0
57.5°	14343.8	4328.1	892.8	571.8	486.3
60°	12263.3	3461.4	775.2	512.1	434.3
62.5°	10232.8	2768.0	677.5	460.3	388.6
65°	8337.7	2243.7	597.8	412.5	346.7
67.5°	6585.9	1773.6	558.0	370.6	313.0
70°	5083.4	1380.9	518.2	330.8	279.0
72.5°	3851.9	1060.2	458.4	294.9	247.1
75°	2829.6	821.1	372.7	259.1	217.2
77.5°	2024.7	631.8	302.9	225.1	187.4
80°	1388.9	470.4	249.0	193.3	159.5
82.5°	902.8	332.9	201.2	159.5	131.4
85°	522.2	217.2	151.6	125.6	103.5
87.5°	225.1	119.5	103.5	93.7	79.7
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)