

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: P731099

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731099
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-LD5-48SE-N-UNV-L835
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44249.0 lumens
Efficiency: N/A
Efficacy: 155.0 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

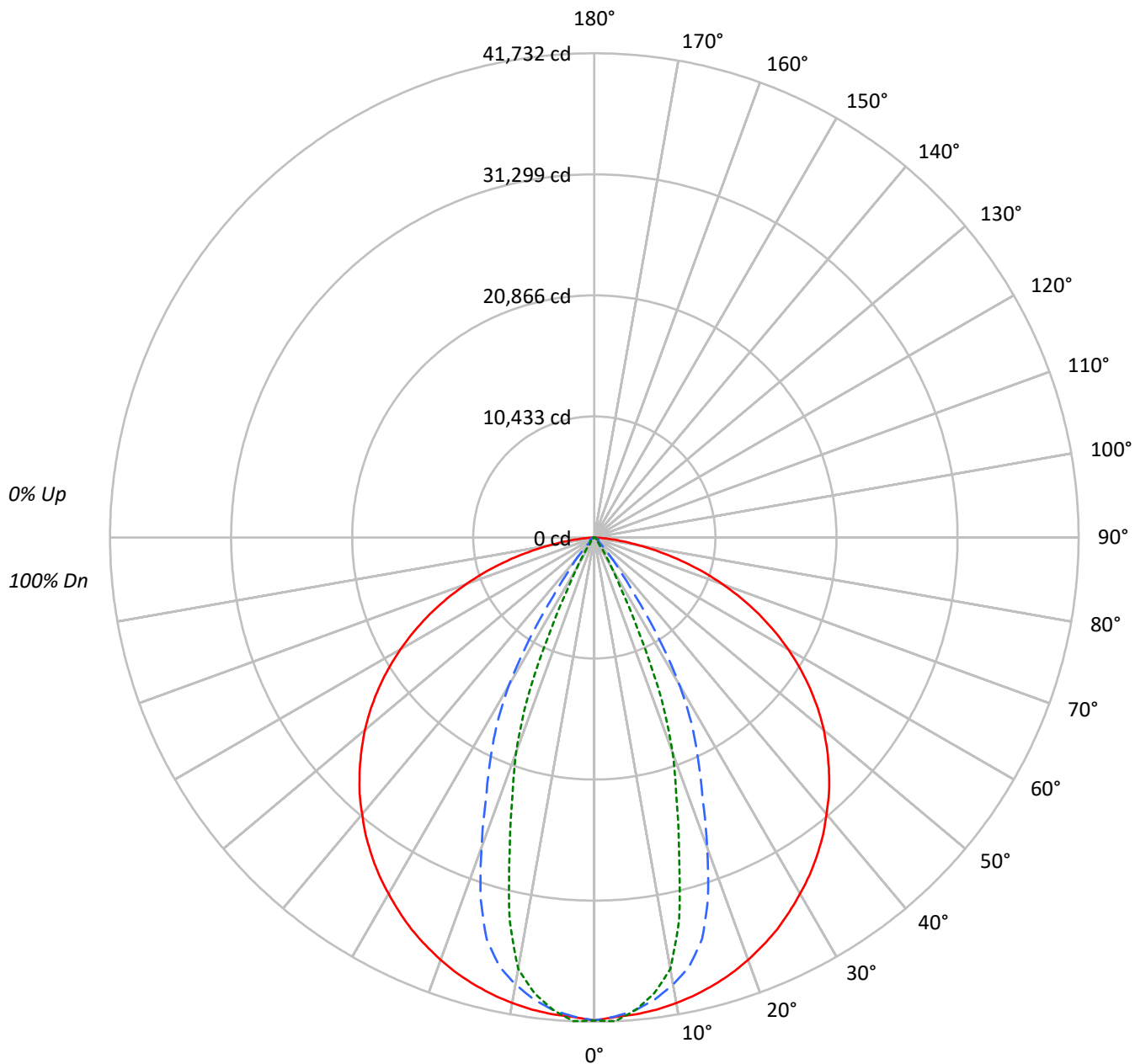
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	67218	67218	67218
5°	66858	66267	66239
10°	66816	64144	61894
15°	66722	59926	47104
20°	66567	48851	33906
25°	66397	37773	16702
30°	66104	27452	5417
35°	65947	12179	1394
40°	65602	4946	939
45°	65309	1388	999
50°	64800	985	1109
55°	63866	1171	474
60°	62290	1305	288
65°	59728	832	341
70°	55488	739	421
75°	48541	556	580
80°	36294	682	829
85°	17977	880	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3863.5	8.7
10°-20°	9660.6	21.8
20°-30°	10463.9	23.6
30°-40°	7749.0	17.5
40°-50°	5581.3	12.6
50°-60°	3455.9	7.8
60°-70°	2125.3	4.8
70°-80°	1120.4	2.5
80°-90°	229.3	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°	23987.9	54.2
0°-40°	31736.9	71.7
0°-60°	40774.0	92.1
0°-90°	44249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	41631	41631	41631	41631	41631	
5°	41251	41404	40887	40916	40869	###
15°	39916	38990	35850	30488	28180	11268
25°	37270	34139	21203	13338	9376	17173
35°	33458	23587	6179	1454	707	20932
45°	28602	13289	608	440	438	22058
55°	22688	2737	416	376	168	20254
65°	15634	289	218	139	89	15425
75°	7781	67	89	117	93	8219
85°	970	26	48	71	59	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	41631.4	41631.4	41631.4	41631.4	41631.4
2.5°	41364.1	41627.6	41316.6	41548.4	41732.5
5°	41251.2	41403.7	40886.8	40916.5	40869.0
7.5°	41053.1	41017.5	40148.1	39767.9	39601.6
10°	40754.2	40518.4	39124.3	38330.1	37751.8
12.5°	40368.0	39841.2	37846.9	35321.7	33753.2
15°	39916.4	38989.6	35850.5	30487.5	28180.1
17.5°	39377.7	38064.7	32586.6	25552.0	23492.4
20°	38741.9	37032.8	28431.6	21739.7	19733.5
22.5°	38032.9	35777.2	24395.5	18067.8	15206.0
25°	37270.5	34139.4	21202.9	13338.4	9375.5
27.5°	36389.2	32034.1	18208.5	7856.6	4784.9
30°	35456.4	29499.0	14724.7	4226.3	2905.4
32.5°	34515.7	26625.4	10419.2	2640.0	1647.7
35°	33458.1	23587.4	6179.0	1453.7	707.1
37.5°	32354.9	20802.9	3652.0	661.6	453.6
40°	31125.1	18258.0	2346.8	439.6	445.5
42.5°	29936.9	15885.4	1321.0	433.6	441.7
45°	28601.9	13288.9	608.0	439.6	437.7
47.5°	27221.5	10597.4	394.0	443.6	443.6
50°	25797.7	7577.4	392.1	453.6	441.7
52.5°	24294.5	4727.5	408.0	451.6	362.5
55°	22688.3	2737.0	415.9	376.2	168.4
57.5°	21024.7	1614.0	419.9	215.9	95.1
60°	19289.7	893.1	404.0	160.4	89.2
62.5°	17501.4	425.8	318.8	150.6	87.1
65°	15633.8	289.2	217.8	138.6	89.2
67.5°	13695.0	223.7	172.2	130.7	91.1
70°	11754.1	166.3	156.5	130.7	89.2
72.5°	9781.6	112.9	130.7	132.6	89.2
75°	7781.2	67.4	89.2	116.9	93.0
77.5°	5798.8	41.5	69.3	120.8	112.9
80°	3903.4	35.6	73.3	112.9	89.2
82.5°	2291.5	31.8	71.4	87.1	71.4
85°	970.4	25.8	47.5	71.4	59.3
87.5°	182.2	21.8	37.7	57.4	51.5
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)