

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: P731054

Luminaire Tested: **HBLED-LD5-48HE-N-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731054
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-L735
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: 43330.0 lumens
Efficiency: N/A
Efficacy: 164.8 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

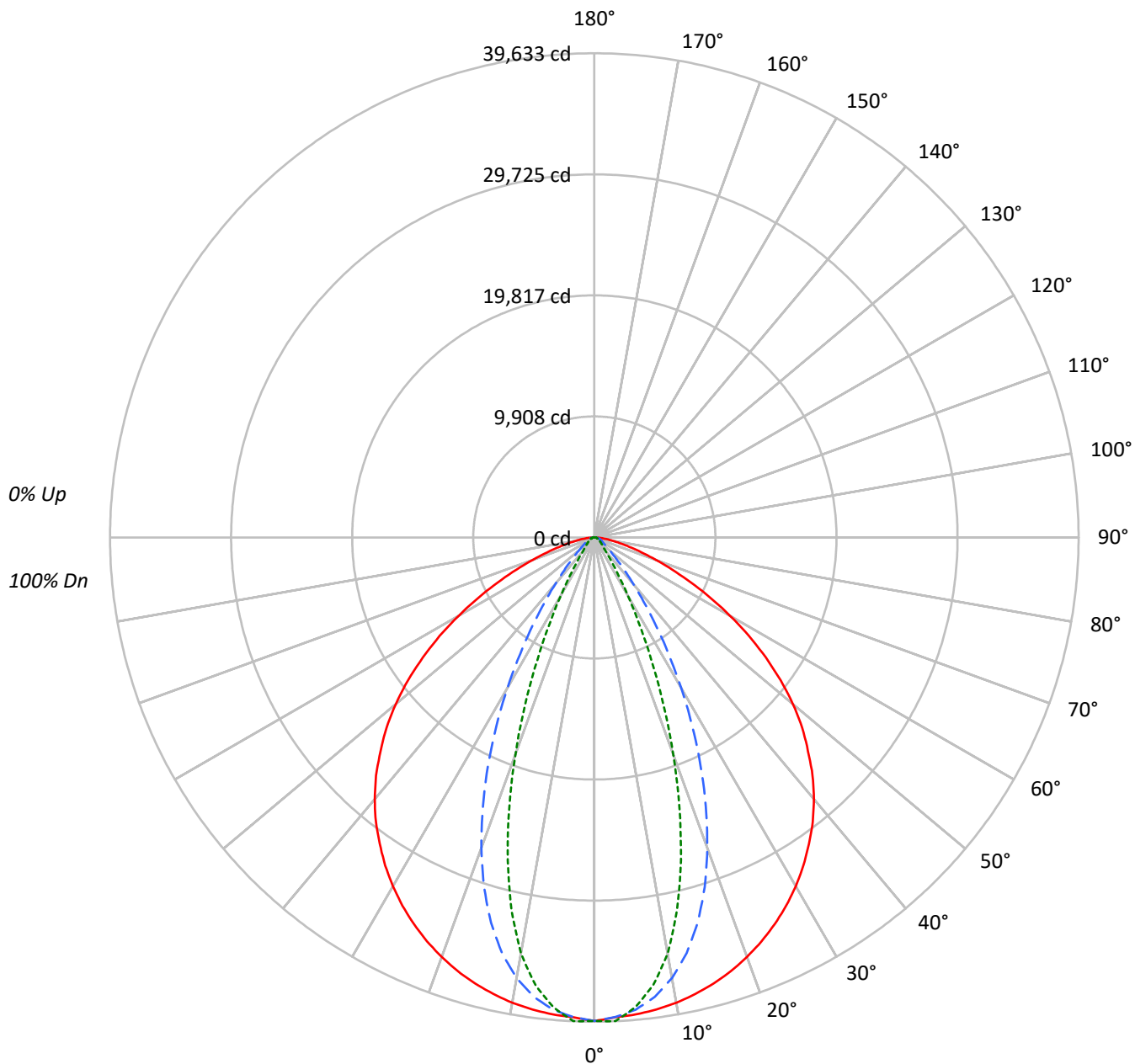
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	63903	63903	63903
5°	63519	62887	62556
10°	63413	60039	56656
15°	63157	54575	45756
20°	62779	46439	32430
25°	62217	36618	19594
30°	61461	26428	10070
35°	60352	17278	5029
40°	58920	10378	2935
45°	56473	6198	2195
50°	53264	4053	1843
55°	48207	3074	1608
60°	41426	2619	1467
65°	33322	2389	1386
70°	25104	2559	1378
75°	18466	2432	1417
80°	13510	2422	1552
85°	10119	2936	2006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3645.0	8.4
10°-20°	9068.0	20.9
20°-30°	10044.1	23.2
30°-40°	8047.1	18.6
40°-50°	5744.6	13.3
50°-60°	3689.8	8.5
60°-70°	1999.6	4.6
70°-80°	854.7	2.0
80°-90°	237.0	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°	22757.1	52.5
0°-40°	30804.2	71.1
0°-60°	40238.6	92.9
0°-90°	43330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39579	39579	39579	39579	39579	
5°	39191	39337	38801	38678	38597	###
15°	37784	36602	32650	28854	27373	10661
25°	34924	30794	20555	13392	10998	16089
35°	30619	22147	8766	3536	2552	19144
45°	24732	12785	2714	1155	961	19063
55°	17125	5716	1092	671	571	15262
65°	8722	2347	625	432	363	8734
75°	2960	859	390	271	227	3289
85°	546	227	158	131	108	667
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	39578.7	39578.7	39578.7	39578.7	39578.7
2.5°	39318.2	39564.3	39299.4	39464.1	39632.9
5°	39191.1	39337.1	38801.2	38678.2	38597.0
7.5°	38970.0	38928.4	37921.6	37269.0	36954.2
10°	38678.2	38340.5	36620.6	35186.5	34557.0
12.5°	38261.3	37565.1	34859.1	32340.9	31273.7
15°	37783.9	36602.0	32649.5	28853.5	27373.3
17.5°	37212.7	35476.2	30008.2	25113.6	23160.3
20°	36537.3	34117.1	27027.3	21140.3	18874.2
22.5°	35782.8	32549.5	23835.7	17179.4	14748.9
25°	34923.8	30794.1	20554.6	13391.7	10998.5
27.5°	33996.3	28845.1	17292.1	10006.2	7823.5
30°	32966.3	26735.4	14175.4	7215.0	5401.3
32.5°	31842.7	24492.4	11280.0	5074.0	3694.0
35°	30619.1	22147.2	8765.8	3535.5	2551.6
37.5°	29366.2	19754.0	6620.8	2499.4	1830.3
40°	27954.9	17369.1	4924.0	1830.3	1392.4
42.5°	26439.4	15030.2	3644.0	1409.1	1127.8
45°	24732.1	12785.0	2714.3	1155.0	961.1
47.5°	23076.9	10692.2	2061.7	983.9	835.9
50°	21204.9	8803.5	1613.5	858.9	733.7
52.5°	19218.3	7142.0	1309.1	756.7	646.2
55°	17125.2	5716.0	1092.2	671.2	571.2
57.5°	15005.2	4527.7	933.9	598.2	508.7
60°	12828.8	3621.0	810.9	535.7	454.4
62.5°	10704.7	2895.6	708.7	481.5	406.5
65°	8722.1	2347.2	625.4	431.5	362.7
67.5°	6889.6	1855.3	583.7	387.7	327.4
70°	5317.8	1444.6	542.1	346.0	291.9
72.5°	4029.5	1109.1	479.6	308.5	258.5
75°	2960.1	858.9	389.9	271.0	227.2
77.5°	2118.0	660.9	316.9	235.5	196.0
80°	1453.0	492.1	260.5	202.2	166.9
82.5°	944.4	348.2	210.5	166.9	137.5
85°	546.2	227.2	158.5	131.3	108.3
87.5°	235.5	125.0	108.3	98.0	83.3
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)