

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: P731114

Luminaire Tested: **HBLED-LD5-48SE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-FLI-UNV-L735
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42684.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

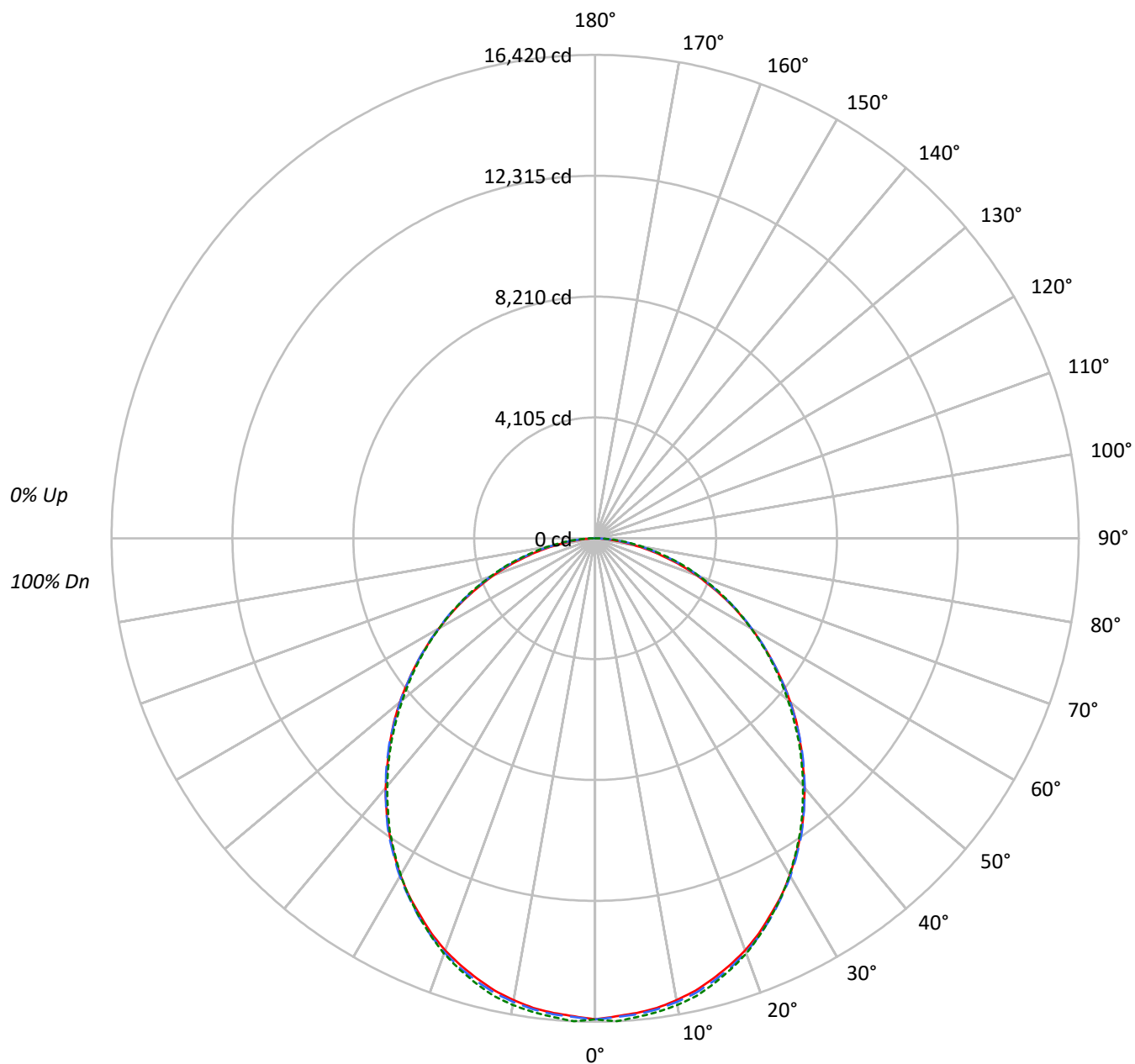
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26383	26383	26383
5°	26233	26307	26457
10°	26114	26220	26390
15°	25885	26025	26152
20°	25592	25715	25789
25°	25118	25260	25223
30°	24655	24721	24620
35°	24044	24106	23952
40°	23321	23321	23142
45°	22506	22567	22337
50°	21733	21696	21425
55°	20792	20795	20608
60°	19785	19808	19731
65°	18647	18834	18881
70°	17223	17695	17714
75°	15221	16206	16459
80°	12484	14193	14996
85°	8662	11917	13475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1545.4	3.6
10°-20°	4396.4	10.3
20°-30°	6533.3	15.3
30°-40°	7639.1	17.9
40°-50°	7616.4	17.8
50°-60°	6608.2	15.5
60°-70°	4881.0	11.4
70°-80°	2732.8	6.4
80°-90°	729.2	1.7
90°-100°	2.2	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°	12475.1	29.2
0°-40°	20114.2	47.1
0°-60°	34338.9	80.4
0°-90°	42681.8	100.0
90°-120°	2.2	0.0
90°-150°	2.2	0.0
90°-180°	2.0	0.0
0°-180°	42684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16341	16341	16341	16341	16341	
5°	16186	16288	16232	16303	16324	###
15°	15486	15594	15570	15644	15646	4367
25°	14099	14212	14179	14210	14158	6500
35°	12199	12306	12230	12228	12152	7620
45°	9856	9961	9883	9843	9782	7609
55°	7386	7437	7387	7375	7321	6605
65°	4881	4929	4930	4955	4942	4827
75°	2440	2513	2598	2617	2638	2598
85°	468	565	643	700	727	568
90°	0	10	12	28	26	19
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16340.6	16340.6	16340.6	16340.6	16340.6
2.5°	16251.3	16348.0	16280.4	16344.8	16419.7
5°	16185.8	16287.8	16231.5	16303.2	16324.0
7.5°	16090.3	16189.0	16135.0	16206.7	16228.5
10°	15928.1	16035.2	15992.6	16073.7	16096.5
12.5°	15739.0	15839.8	15811.7	15906.2	15921.9
15°	15485.5	15593.6	15569.6	15644.5	15645.5
17.5°	15204.9	15306.6	15289.0	15347.3	15345.1
20°	14894.3	15003.2	14966.0	15029.2	15009.4
22.5°	14526.4	14642.7	14595.9	14648.9	14599.1
25°	14099.2	14212.5	14179.3	14210.3	14158.5
27.5°	13685.6	13789.6	13720.9	13758.3	13703.2
30°	13224.2	13312.5	13259.6	13272.1	13205.6
32.5°	12705.7	12810.6	12746.1	12744.1	12673.4
35°	12198.6	12305.5	12229.8	12227.6	12151.9
37.5°	11637.4	11737.2	11647.8	11653.1	11564.7
40°	11064.9	11151.2	11064.9	11060.6	10979.7
42.5°	10443.4	10557.8	10478.9	10488.1	10380.1
45°	9856.4	9961.4	9883.4	9842.8	9782.5
47.5°	9271.4	9317.1	9252.6	9242.2	9157.1
50°	8652.0	8686.2	8637.4	8624.9	8529.4
52.5°	8011.9	8071.2	8008.7	7992.1	7928.8
55°	7386.2	7437.1	7387.3	7374.8	7320.8
57.5°	6756.6	6823.1	6772.2	6759.6	6716.1
60°	6126.9	6146.6	6134.1	6152.8	6110.3
62.5°	5501.3	5546.9	5561.6	5556.4	5523.1
65°	4880.8	4928.7	4929.7	4954.7	4942.1
67.5°	4246.0	4308.3	4326.1	4351.9	4363.3
70°	3648.4	3696.2	3748.3	3763.7	3752.3
72.5°	3046.7	3123.6	3181.9	3195.3	3244.2
75°	2439.9	2512.6	2597.9	2616.6	2638.4
77.5°	1876.8	1973.3	2050.2	2075.2	2102.3
80°	1342.6	1449.6	1526.5	1560.7	1612.8
82.5°	881.2	990.3	1068.3	1102.5	1166.0
85°	467.6	565.4	643.3	700.4	727.4
87.5°	138.2	221.3	266.0	282.6	306.6
90°	0.0	10.4	12.4	28.0	26.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)