

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: P731097

Luminaire Tested: **HBLED-LD5-48SE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731097
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-L740
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47692.0 lumens
Efficiency: N/A
Efficacy: 167.0 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

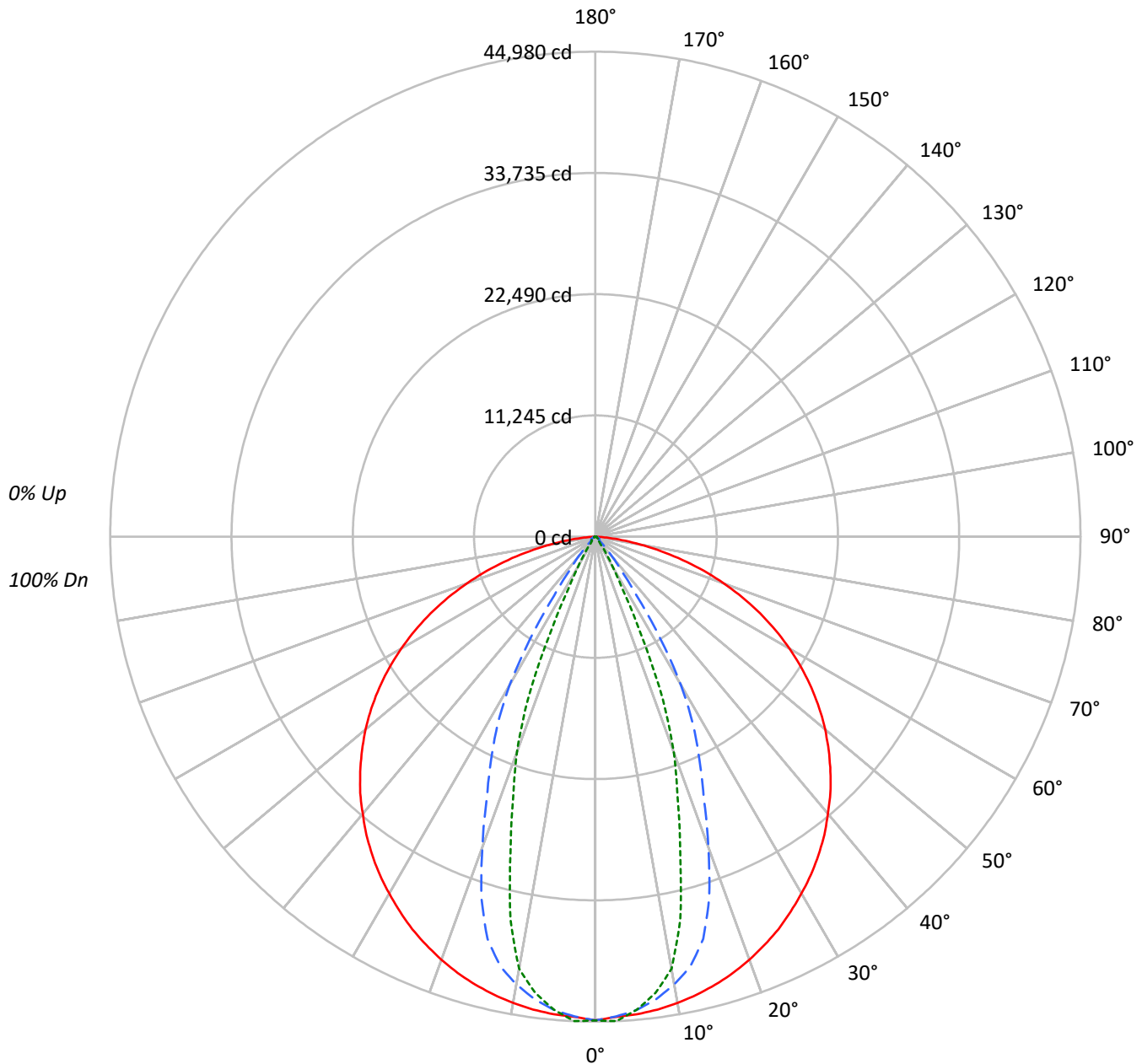
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	72448	72448	72448
5°	72060	71424	71393
10°	72015	69135	66710
15°	71914	64588	50769
20°	71746	52652	36545
25°	71564	40712	18002
30°	71247	29588	5838
35°	71079	13127	1502
40°	70707	5331	1012
45°	70390	1496	1077
50°	69842	1062	1196
55°	68836	1262	511
60°	67137	1406	310
65°	64375	897	367
70°	59805	796	454
75°	52318	599	625
80°	39118	735	894
85°	19377	948	1184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4164.1	8.7
10°-20°	10412.3	21.8
20°-30°	11278.1	23.6
30°-40°	8351.9	17.5
40°-50°	6015.5	12.6
50°-60°	3724.8	7.8
60°-70°	2290.7	4.8
70°-80°	1207.6	2.5
80°-90°	247.2	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°	25854.4	54.2
0°-40°	34206.3	71.7
0°-60°	43946.6	92.1
0°-90°	47692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	44871	44871	44871	44871	44871	
5°	44461	44625	44068	44100	44049	###
15°	43022	42023	38640	32860	30373	12145
25°	40170	36796	22853	14376	10105	18509
35°	36062	25423	6660	1567	762	22561
45°	30827	14323	655	474	472	23774
55°	24454	2950	448	406	182	21830
65°	16850	312	235	149	96	16625
75°	8387	73	96	126	100	8858
85°	1046	28	51	77	64	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	44870.8	44870.8	44870.8	44870.8	44870.8
2.5°	44582.6	44866.7	44531.5	44781.3	44979.7
5°	44460.9	44625.3	44068.2	44100.2	44049.0
7.5°	44247.5	44209.1	43272.0	42862.2	42683.0
10°	43925.3	43671.2	42168.5	41312.5	40689.2
12.5°	43509.0	42941.2	40791.7	38070.1	36379.6
15°	43022.3	42023.3	38640.0	32859.7	30372.8
17.5°	42441.6	41026.5	35122.2	27540.2	25320.4
20°	41756.4	39914.3	30643.8	23431.2	21269.0
22.5°	40992.2	38561.0	26293.7	19473.7	16389.2
25°	40170.5	36795.8	22852.7	14376.3	10105.0
27.5°	39220.6	34526.7	19625.3	8467.9	5157.2
30°	38215.3	31794.3	15870.5	4555.1	3131.5
32.5°	37201.3	28697.1	11230.0	2845.4	1775.9
35°	36061.5	25422.7	6659.8	1566.8	762.1
37.5°	34872.4	22421.6	3936.1	713.0	488.8
40°	33547.0	19678.7	2529.4	473.8	480.2
42.5°	32266.3	17121.4	1423.8	467.4	476.1
45°	30827.4	14322.9	655.3	473.8	471.7
47.5°	29339.6	11422.0	424.7	478.1	478.1
50°	27805.0	8167.0	422.6	488.8	476.1
52.5°	26184.8	5095.3	439.8	486.8	390.7
55°	24453.7	2950.0	448.2	405.5	181.5
57.5°	22660.6	1739.6	452.5	232.7	102.5
60°	20790.7	962.6	435.4	172.8	96.1
62.5°	18863.1	458.9	343.6	162.3	93.8
65°	16850.2	311.7	234.7	149.3	96.1
67.5°	14760.6	241.1	185.6	140.9	98.2
70°	12668.6	179.2	168.7	140.9	96.1
72.5°	10542.7	121.7	140.9	142.9	96.1
75°	8386.6	72.6	96.1	126.0	100.2
77.5°	6250.0	44.8	74.7	130.2	121.7
80°	4207.1	38.4	79.0	121.7	96.1
82.5°	2469.8	34.2	76.9	93.8	76.9
85°	1046.0	27.8	51.2	76.9	63.9
87.5°	196.4	23.5	40.6	61.9	55.5
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)