

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: P730388

Luminaire Tested: **HBLED-LD5-15HE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730388
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-LD5-15HE-N-UNV-L735
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15608.0 lumens
Efficiency: N/A
Efficacy: 171.1 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

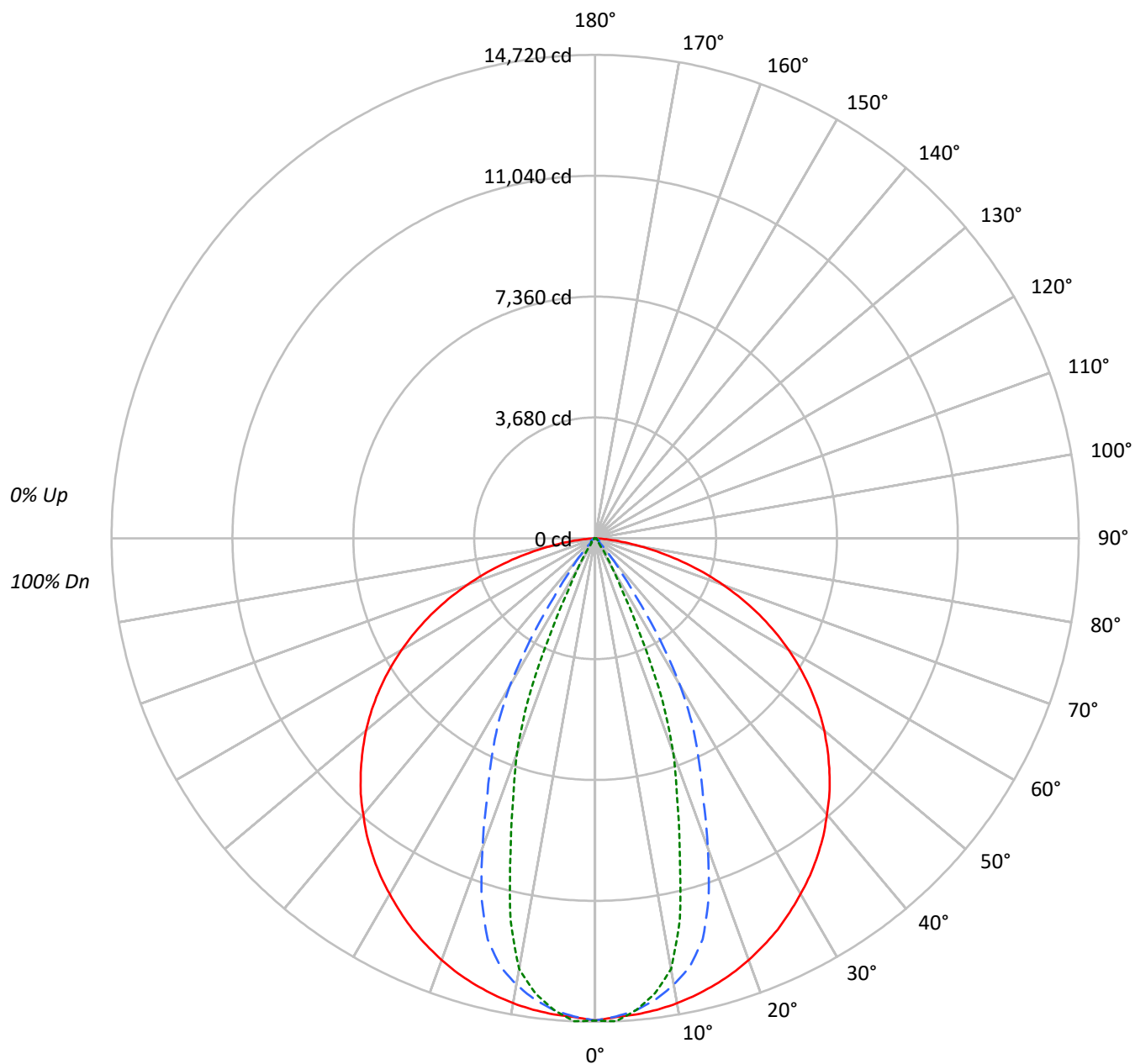
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	23710	23710	23710
5°	23583	23375	23364
10°	23568	22626	21832
15°	23535	21138	16615
20°	23480	17231	11960
25°	23420	13324	5891
30°	23317	9683	1911
35°	23262	4296	492
40°	23140	1745	331
45°	23036	490	353
50°	22857	347	391
55°	22528	413	167
60°	21972	460	102
65°	21068	293	120
70°	19572	261	149
75°	17122	197	205
80°	12802	241	293
85°	6341	309	387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1362.8	8.7
10°-20°	3407.6	21.8
20°-30°	3690.9	23.6
30°-40°	2733.3	17.5
40°-50°	1968.7	12.6
50°-60°	1219.0	7.8
60°-70°	749.7	4.8
70°-80°	395.2	2.5
80°-90°	80.9	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°	8461.3	54.2
0°-40°	11194.6	71.7
0°-60°	14382.3	92.1
0°-90°	15608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14685	14685	14685	14685	14685	
5°	14551	14604	14422	14432	14416	###
15°	14080	13753	12646	10754	9940	3975
25°	13146	12042	7479	4705	3307	6058
35°	11802	8320	2180	513	249	7383
45°	10089	4687	214	155	154	7781
55°	8003	965	147	133	59	7144
65°	5514	102	77	49	32	5441
75°	2745	24	32	41	33	2899
85°	342	9	17	25	21	517
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14684.7	14684.7	14684.7	14684.7	14684.7
2.5°	14590.4	14683.4	14573.7	14655.4	14720.3
5°	14550.6	14604.4	14422.1	14432.5	14415.8
7.5°	14480.7	14468.2	14161.5	14027.4	13968.7
10°	14375.3	14292.1	13800.4	13520.2	13316.2
12.5°	14239.1	14053.2	13349.8	12459.1	11905.8
15°	14079.7	13752.8	12645.6	10753.9	9940.0
17.5°	13889.7	13426.6	11494.3	9013.0	8286.5
20°	13665.5	13062.6	10028.7	7668.3	6960.6
22.5°	13415.4	12619.7	8605.1	6373.1	5363.6
25°	13146.5	12042.0	7478.9	4704.9	3307.0
27.5°	12835.6	11299.4	6422.7	2771.3	1687.8
30°	12506.6	10405.2	5193.9	1490.7	1024.8
32.5°	12174.7	9391.6	3675.2	931.2	581.2
35°	11801.7	8320.0	2179.5	512.8	249.4
37.5°	11412.6	7337.8	1288.2	233.4	160.0
40°	10978.8	6440.2	827.8	155.1	157.1
42.5°	10559.7	5603.3	466.0	153.0	155.8
45°	10088.8	4687.4	214.5	155.1	154.4
47.5°	9601.9	3738.0	139.0	156.5	156.5
50°	9099.7	2672.8	138.3	160.0	155.8
52.5°	8569.4	1667.5	143.9	159.3	127.9
55°	8002.9	965.4	146.7	132.7	59.4
57.5°	7416.1	569.3	148.1	76.1	33.5
60°	6804.1	315.0	142.5	56.6	31.5
62.5°	6173.3	150.2	112.5	53.1	30.7
65°	5514.5	102.0	76.8	48.9	31.5
67.5°	4830.6	78.9	60.8	46.1	32.1
70°	4146.0	58.7	55.2	46.1	31.5
72.5°	3450.3	39.8	46.1	46.8	31.5
75°	2744.7	23.8	31.5	41.2	32.8
77.5°	2045.4	14.6	24.4	42.6	39.8
80°	1376.9	12.6	25.9	39.8	31.5
82.5°	808.3	11.2	25.2	30.7	25.2
85°	342.3	9.1	16.7	25.2	20.9
87.5°	64.3	7.7	13.3	20.3	18.2
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)