

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: P730821

Luminaire Tested: **HBLED-LD5-30HE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730821
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-LD5-30HE-N-UNV-L740
Description: 30000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31729.0 lumens
Efficiency: N/A
Efficacy: 177.3 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

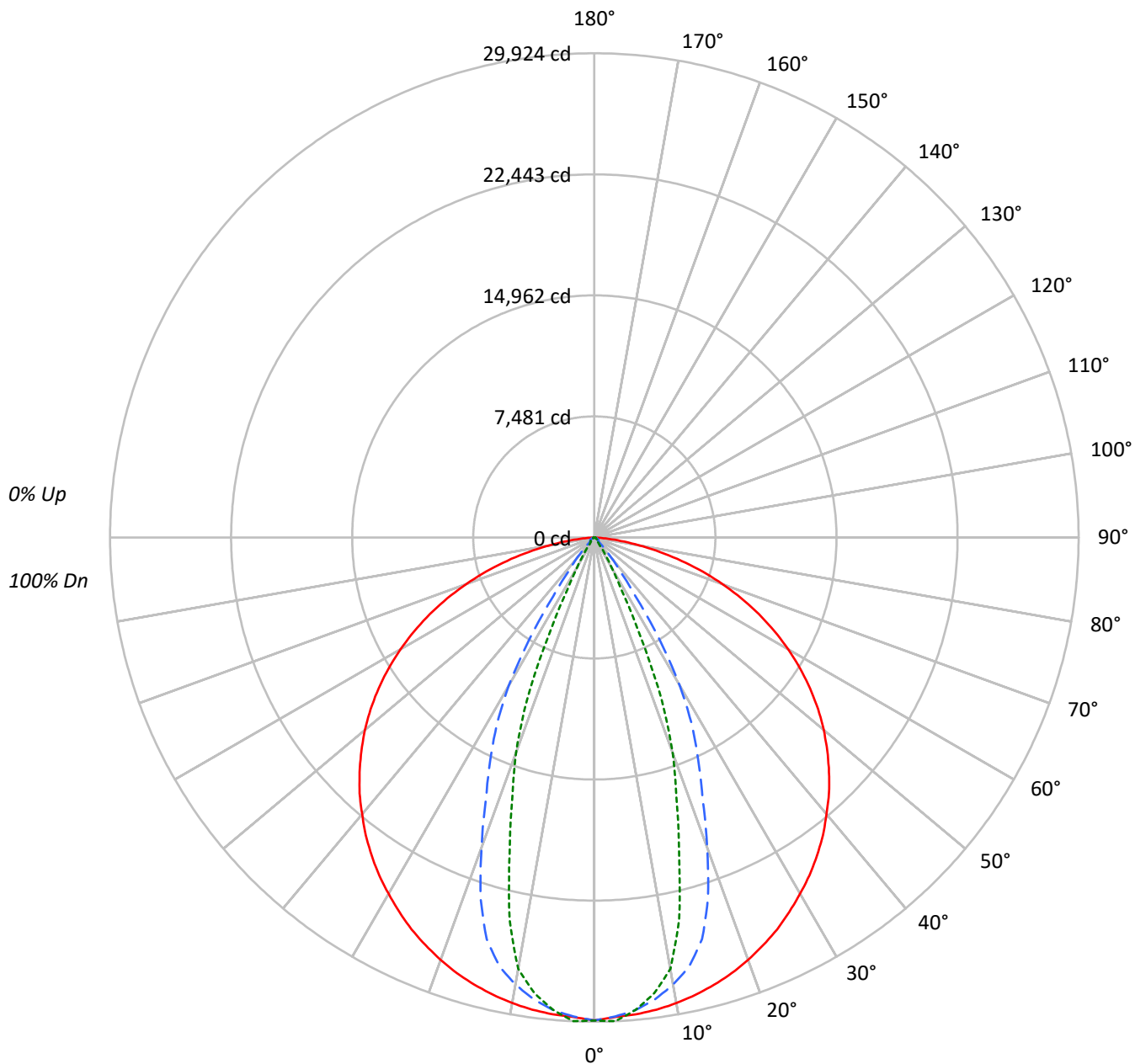
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	48199	48199	48199
5°	47941	47517	47497
10°	47911	45995	44381
15°	47843	42970	33776
20°	47732	35029	24313
25°	47611	27085	11977
30°	47400	19685	3884
35°	47288	8733	999
40°	47041	3547	673
45°	46830	996	717
50°	46465	706	796
55°	45796	839	340
60°	44665	935	206
65°	42828	597	244
70°	39788	530	302
75°	34807	399	416
80°	26025	489	594
85°	12892	630	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2770.3	8.7
10°-20°	6927.2	21.8
20°-30°	7503.2	23.6
30°-40°	5556.4	17.5
40°-50°	4002.1	12.6
50°-60°	2478.1	7.8
60°-70°	1524.0	4.8
70°-80°	803.4	2.5
80°-90°	164.4	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°	17200.7	54.2
0°-40°	22757.1	71.7
0°-60°	29237.2	92.1
0°-90°	31729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29852	29852	29852	29852	29852	
5°	29579	29689	29318	29339	29305	###
15°	28622	27958	25707	21861	20207	8080
25°	26725	24480	15204	9564	6723	12314
35°	23991	16914	4431	1042	507	15009
45°	20509	9529	436	315	314	15817
55°	16269	1963	298	270	121	14523
65°	11210	207	156	99	64	11061
75°	5580	48	64	84	67	5893
85°	696	18	34	51	42	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29852.1	29852.1	29852.1	29852.1	29852.1
2.5°	29660.4	29849.3	29626.3	29792.5	29924.5
5°	29579.4	29688.8	29318.1	29339.4	29305.4
7.5°	29437.4	29411.9	28788.4	28515.8	28396.5
10°	29223.0	29054.0	28054.3	27484.8	27070.1
12.5°	28946.1	28568.3	27138.3	25327.6	24203.0
15°	28622.3	27957.7	25706.8	21861.2	20206.7
17.5°	28236.0	27294.5	23366.4	18322.2	16845.4
20°	27780.1	26554.6	20387.0	15588.6	14150.0
22.5°	27271.7	25654.2	17493.0	12955.6	10903.6
25°	26725.0	24479.9	15203.6	9564.4	6722.8
27.5°	26093.1	22970.3	13056.5	5633.6	3431.0
30°	25424.3	21152.5	10558.5	3030.5	2083.3
32.5°	24749.7	19091.9	7471.2	1893.0	1181.5
35°	23991.4	16913.5	4430.7	1042.4	507.0
37.5°	23200.3	14916.8	2618.7	474.4	325.2
40°	22318.5	13092.0	1682.8	315.2	319.5
42.5°	21466.4	11390.7	947.3	311.0	316.7
45°	20509.1	9528.9	436.0	315.2	313.8
47.5°	19519.3	7598.9	282.5	318.1	318.1
50°	18498.4	5433.4	281.2	325.2	316.7
52.5°	17420.5	3389.9	292.6	323.8	259.9
55°	16268.8	1962.6	298.2	269.8	120.8
57.5°	15075.9	1157.4	301.1	154.8	68.2
60°	13831.8	640.4	289.7	115.0	63.9
62.5°	12549.4	305.3	228.6	108.0	62.4
65°	11210.3	207.3	156.2	99.4	63.9
67.5°	9820.1	160.4	123.5	93.7	65.3
70°	8428.3	119.2	112.2	93.7	63.9
72.5°	7014.0	81.0	93.7	95.1	63.9
75°	5579.5	48.3	63.9	83.8	66.7
77.5°	4158.0	29.8	49.7	86.6	81.0
80°	2799.0	25.5	52.6	81.0	63.9
82.5°	1643.1	22.8	51.2	62.4	51.2
85°	695.9	18.5	34.0	51.2	42.5
87.5°	130.6	15.6	27.0	41.2	36.9
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)