

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: P731037

Luminaire Tested: **HBLED-LD5-36SE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731037
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-LD5-36SE-W-FLI-UNV-L740
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34088.0 lumens
Efficiency: N/A
Efficacy: 149.8 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

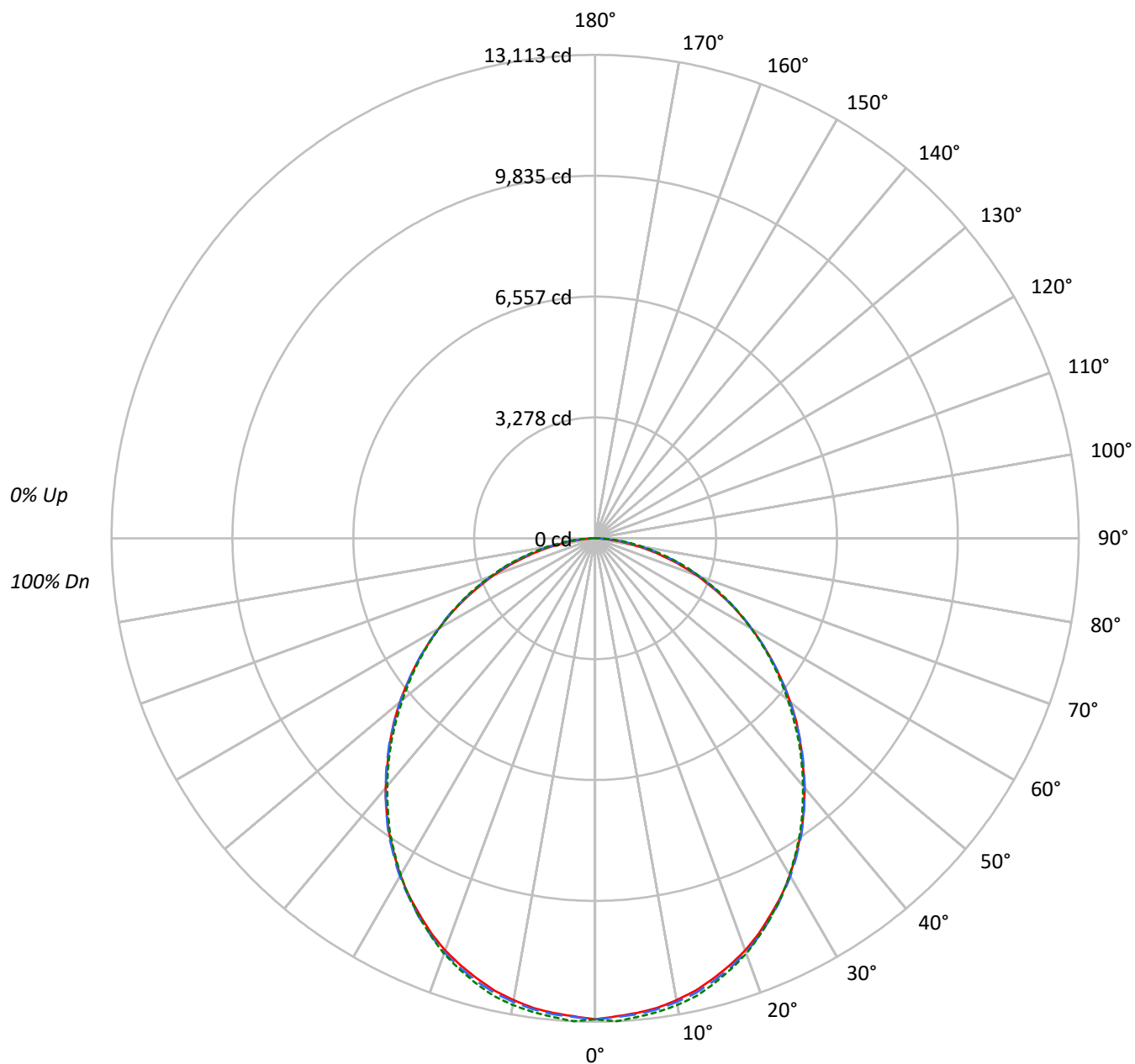
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21070	21070	21070
5°	20950	21009	21129
10°	20855	20939	21076
15°	20672	20784	20885
20°	20438	20536	20596
25°	20059	20173	20144
30°	19690	19742	19662
35°	19202	19251	19128
40°	18625	18625	18482
45°	17974	18023	17839
50°	17356	17327	17110
55°	16605	16607	16458
60°	15801	15819	15758
65°	14892	15041	15079
70°	13754	14131	14146
75°	12156	12943	13145
80°	9969	11335	11976
85°	6919	9516	10761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1234.2	3.6
10°-20°	3511.0	10.3
20°-30°	5217.6	15.3
30°-40°	6100.7	17.9
40°-50°	6082.6	17.8
50°-60°	5277.4	15.5
60°-70°	3898.0	11.4
70°-80°	2182.4	6.4
80°-90°	582.3	1.7
90°-100°	1.7	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°	9962.8	29.2
0°-40°	16063.5	47.1
0°-60°	27423.5	80.4
0°-90°	34086.2	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	34088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13050	13050	13050	13050	13050	
5°	12926	13008	12963	13020	13037	###
15°	12367	12453	12434	12494	12495	3488
25°	11260	11350	11324	11349	11307	5191
35°	9742	9827	9767	9765	9705	6085
45°	7872	7955	7893	7861	7812	6077
55°	5899	5939	5900	5890	5846	5275
65°	3898	3936	3937	3957	3947	3855
75°	1949	2007	2075	2090	2107	2075
85°	374	452	514	559	581	454
90°	0	8	10	22	21	15
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°	13049.8	13049.8	13049.8	13049.8	13049.8
2.5°	12978.5	13055.8	13001.7	13053.2	13113.0
5°	12926.2	13007.6	12962.7	13019.9	13036.6
7.5°	12849.9	12928.8	12885.6	12942.8	12960.3
10°	12720.4	12805.9	12771.9	12836.6	12854.9
12.5°	12569.4	12649.8	12627.4	12702.9	12715.4
15°	12366.9	12453.3	12434.1	12493.9	12494.7
17.5°	12142.8	12224.1	12210.0	12256.5	12254.8
20°	11894.8	11981.8	11952.0	12002.6	11986.7
22.5°	11600.9	11693.9	11656.4	11698.8	11659.0
25°	11259.8	11350.3	11323.8	11348.6	11307.1
27.5°	10929.5	11012.5	10957.7	10987.6	10943.6
30°	10561.0	10631.5	10589.3	10599.2	10546.1
32.5°	10146.9	10230.7	10179.2	10177.6	10121.2
35°	9742.0	9827.4	9766.9	9765.2	9704.7
37.5°	9293.8	9373.5	9302.1	9306.3	9235.7
40°	8836.5	8905.5	8836.5	8833.2	8768.6
42.5°	8340.2	8431.6	8368.6	8375.9	8289.7
45°	7871.5	7955.3	7893.1	7860.6	7812.4
47.5°	7404.3	7440.7	7389.2	7380.9	7312.9
50°	6909.6	6936.9	6897.9	6888.0	6811.7
52.5°	6398.4	6445.8	6395.8	6382.6	6332.0
55°	5898.8	5939.4	5899.6	5889.6	5846.5
57.5°	5395.9	5449.0	5408.4	5398.3	5363.6
60°	4893.1	4908.7	4898.8	4913.7	4879.8
62.5°	4393.4	4429.9	4441.5	4437.4	4410.8
65°	3897.9	3936.1	3936.9	3956.9	3946.8
67.5°	3390.9	3440.6	3454.9	3475.5	3484.6
70°	2913.6	2951.9	2993.4	3005.8	2996.6
72.5°	2433.2	2494.6	2541.1	2551.8	2590.9
75°	1948.6	2006.6	2074.7	2089.6	2107.1
77.5°	1498.8	1575.9	1637.3	1657.3	1678.9
80°	1072.2	1157.6	1219.1	1246.4	1288.0
82.5°	703.7	790.9	853.1	880.5	931.2
85°	373.5	451.5	513.7	559.3	580.9
87.5°	110.4	176.7	212.4	225.7	244.9
90°	0.0	8.3	9.9	22.4	20.8
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)