

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: P731046

Luminaire Tested: **HBLED-LD5-36SE-W-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36642.0 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

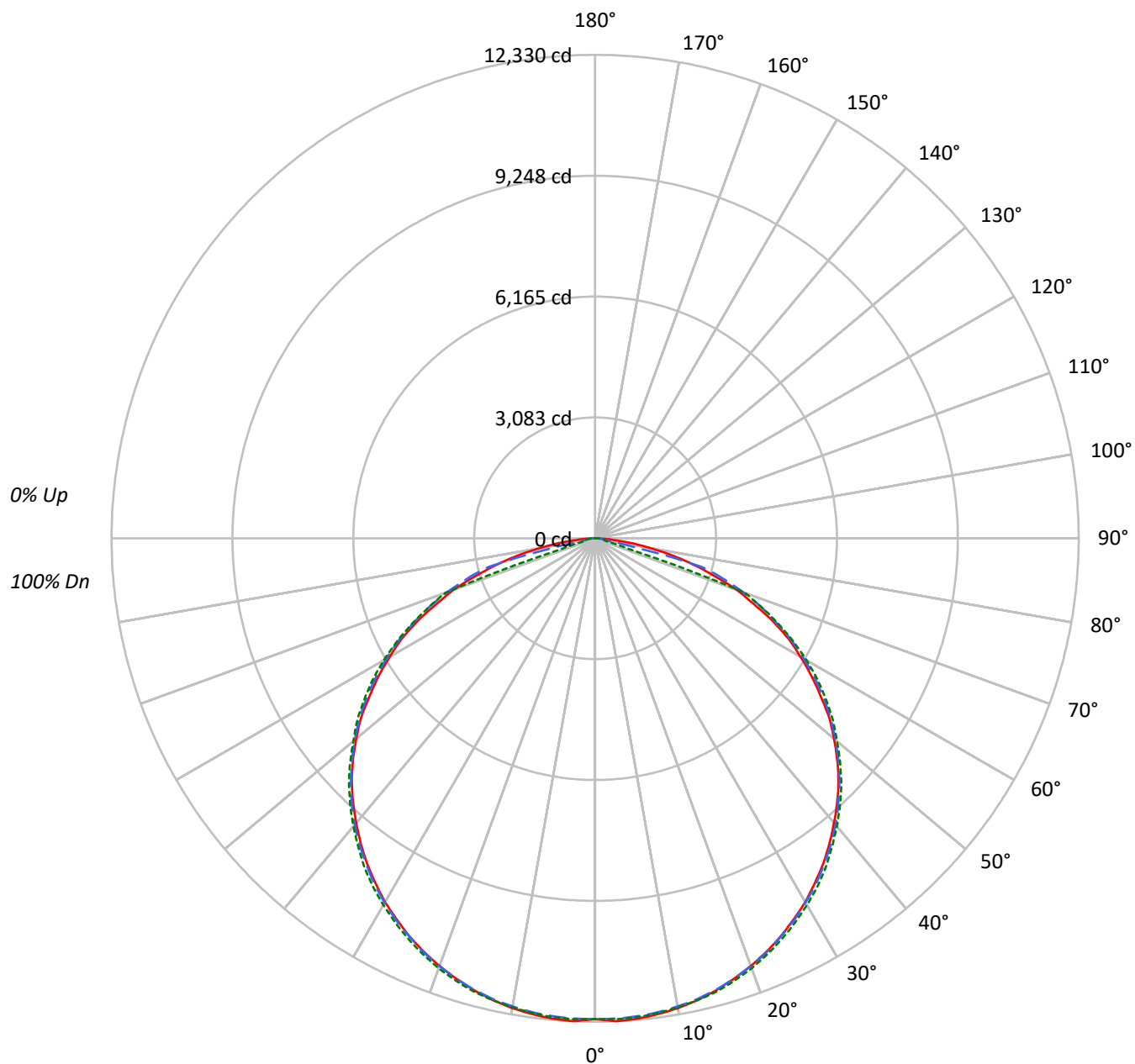
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731046

CATALOG NUMBER: HBLED-LD5-36SE-W-UNV-L840

Luminous Intensity Polar Plot



TEST NUMBER: P731046

CATALOG NUMBER: HBLED-LD5-36SE-W-UNV-L840

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85						
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70						
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59						
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50						
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43						
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37						
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33						
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29						
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26						
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19797	19797	19797
5°	19939	19837	19873
10°	19950	19879	19919
15°	19948	19920	20012
20°	19946	19951	20054
25°	19956	19965	20087
30°	19978	20003	20135
35°	19974	20038	20205
40°	19977	20104	20213
45°	20033	20108	20270
50°	19972	20089	20219
55°	19753	20029	20245
60°	19528	19846	20093
65°	19096	19493	19639
70°	18130	18903	19136
75°	16170	17534	2113
80°	13003	2184	2311
85°	8653	2834	2884



TEST NUMBER: P731046

CATALOG NUMBER: HBLED-LD5-36SE-W-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.6	3.2
10°-20°	3365.0	9.2
20°-30°	5170.2	14.1
30°-40°	6364.7	17.4
40°-50°	6785.4	18.5
50°-60°	6342.9	17.3
60°-70°	5021.2	13.7
70°-80°	2136.3	5.8
80°-90°	291.7	0.8
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°	9699.8	26.5
0°-40°	16064.4	43.8
0°-60°	29192.7	79.7
0°-90°	36642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12262	12262	12262	12262	12262	
5°	12302	12248	12240	12190	12262	###
15°	11934	11912	11917	11884	11972	3369
25°	11202	11188	11207	11202	11275	5165
35°	10134	10117	10166	10202	10251	6341
45°	8773	8724	8806	8842	8877	6760
55°	7017	7039	7115	7140	7192	6284
65°	4998	5042	5102	5141	5141	4917
75°	2592	2704	2811	459	339	2742
85°	467	139	153	158	156	609
90°	0	0	0	0	0	



TEST NUMBER: P731046

CATALOG NUMBER: HBLED-LD5-36SE-W-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12261.5	12261.5	12261.5	12261.5	12261.5
2.5°	12329.7	12272.4	12261.5	12212.3	12277.8
5°	12302.4	12247.8	12239.6	12190.4	12261.5
7.5°	12245.1	12201.4	12195.9	12144.0	12215.0
10°	12168.6	12127.6	12124.9	12078.5	12149.5
12.5°	12064.8	12029.3	12040.2	11993.8	12064.8
15°	11933.7	11911.8	11917.3	11884.5	11971.9
17.5°	11775.3	11764.3	11775.3	11750.7	11829.9
20°	11608.6	11595.0	11611.4	11597.7	11671.5
22.5°	11414.7	11398.3	11431.1	11412.0	11480.3
25°	11201.7	11188.0	11207.1	11201.7	11275.4
27.5°	10958.6	10944.9	10985.9	10988.6	11046.0
30°	10715.5	10696.3	10729.1	10742.8	10800.1
32.5°	10425.9	10420.5	10469.6	10480.6	10540.6
35°	10133.7	10117.3	10166.4	10202.0	10251.1
37.5°	9814.1	9811.4	9863.3	9893.3	9917.9
40°	9478.1	9464.5	9538.2	9568.3	9590.1
42.5°	9136.7	9106.6	9177.7	9215.9	9240.5
45°	8773.4	8724.2	8806.2	8841.7	8877.2
47.5°	8374.6	8330.9	8410.1	8448.4	8472.9
50°	7951.2	7910.3	7997.7	8030.5	8049.6
52.5°	7525.1	7484.2	7577.0	7604.3	7650.8
55°	7017.1	7038.9	7115.4	7140.0	7191.9
57.5°	6547.3	6566.4	6640.1	6670.2	6730.3
60°	6047.4	6077.5	6145.8	6175.8	6222.2
62.5°	5564.0	5566.7	5648.6	5662.3	5697.8
65°	4998.5	5042.2	5102.3	5140.6	5140.6
67.5°	4367.6	4474.1	4577.9	4569.7	4591.6
70°	3840.4	3881.4	4004.3	4023.4	4053.5
72.5°	3179.4	3285.9	3422.5	2556.6	868.6
75°	2592.1	2704.1	2810.7	458.9	338.7
77.5°	2013.1	2100.5	934.2	262.2	256.8
80°	1398.5	1537.8	234.9	240.4	248.6
82.5°	920.5	751.1	193.9	213.1	215.8
85°	467.1	139.3	153.0	158.4	155.7
87.5°	153.0	84.7	87.4	90.1	92.9
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)