

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: P730980

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730980
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-LD5-36HE-W-UNV-L840
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36171.0 lumens
Efficiency: N/A
Efficacy: 172.2 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

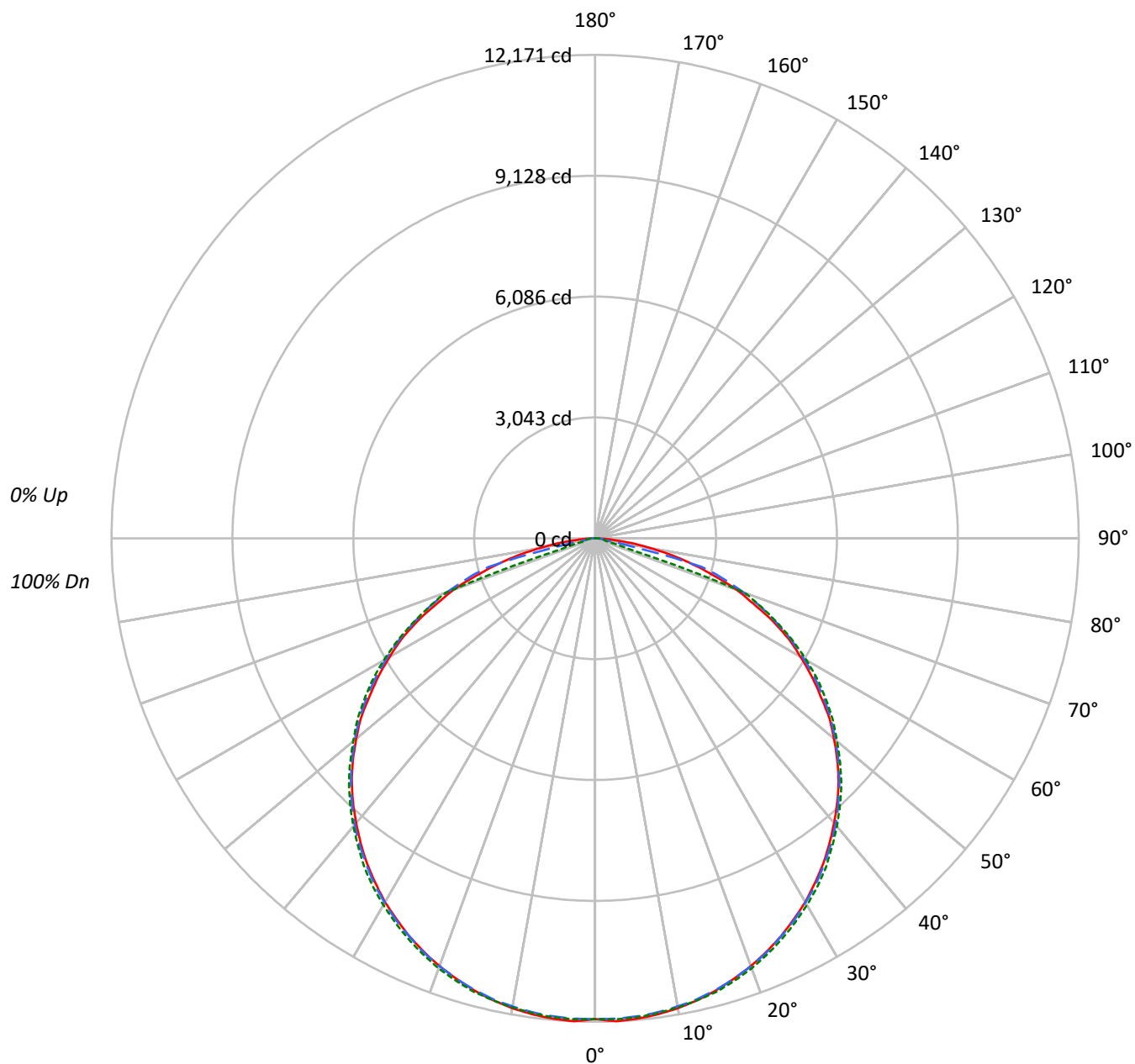
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19543	19543	19543
5°	19683	19582	19617
10°	19694	19623	19663
15°	19691	19664	19754
20°	19690	19694	19796
25°	19699	19709	19829
30°	19721	19746	19877
35°	19717	19781	19946
40°	19720	19845	19953
45°	19775	19849	20009
50°	19716	19831	19959
55°	19499	19772	19985
60°	19277	19591	19835
65°	18851	19243	19387
70°	17896	18660	18890
75°	15963	17308	2085
80°	12836	2156	2282
85°	8542	2797	2847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.6	3.2
10°-20°	3321.8	9.2
20°-30°	5103.7	14.1
30°-40°	6282.8	17.4
40°-50°	6698.1	18.5
50°-60°	6261.4	17.3
60°-70°	4956.7	13.7
70°-80°	2108.9	5.8
80°-90°	288.0	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°	9575.1	26.5
0°-40°	15857.9	43.8
0°-60°	28817.5	79.7
0°-90°	36171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12104	12104	12104	12104	12104	
5°	12144	12090	12082	12034	12104	###
15°	11780	11759	11764	11732	11818	3326
25°	11058	11044	11063	11058	11130	5098
35°	10003	9987	10036	10071	10119	6259
45°	8661	8612	8693	8728	8763	6673
55°	6927	6948	7024	7048	7100	6203
65°	4934	4977	5037	5074	5074	4854
75°	2559	2669	2774	453	334	2707
85°	461	138	151	156	154	601
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12103.9	12103.9	12103.9	12103.9	12103.9
2.5°	12171.3	12114.6	12103.9	12055.3	12120.0
5°	12144.3	12090.4	12082.3	12033.7	12103.9
7.5°	12087.7	12044.5	12039.1	11987.9	12058.0
10°	12012.2	11971.7	11969.0	11923.2	11993.3
12.5°	11909.7	11874.7	11885.4	11839.6	11909.7
15°	11780.3	11758.7	11764.1	11731.8	11818.0
17.5°	11623.9	11613.1	11623.9	11599.6	11677.8
20°	11459.4	11445.9	11462.1	11448.6	11521.4
22.5°	11268.0	11251.8	11284.2	11265.3	11332.7
25°	11057.7	11044.2	11063.1	11057.7	11130.5
27.5°	10817.7	10804.2	10844.7	10847.4	10904.0
30°	10577.7	10558.9	10591.2	10604.7	10661.3
32.5°	10291.9	10286.5	10335.1	10345.8	10405.2
35°	10003.4	9987.2	10035.8	10070.8	10119.3
37.5°	9687.9	9685.2	9736.5	9766.1	9790.4
40°	9356.3	9342.8	9415.6	9445.3	9466.8
42.5°	9019.2	8989.6	9059.7	9097.4	9121.7
45°	8660.6	8612.1	8693.0	8728.0	8763.1
47.5°	8267.0	8223.8	8302.0	8339.8	8364.0
50°	7849.0	7808.6	7894.9	7927.2	7946.1
52.5°	7428.4	7388.0	7479.6	7506.6	7552.4
55°	6926.9	6948.5	7024.0	7048.2	7099.5
57.5°	6463.1	6482.0	6554.8	6584.5	6643.8
60°	5969.7	5999.3	6066.8	6096.4	6142.3
62.5°	5492.4	5495.1	5576.0	5589.5	5624.6
65°	4934.3	4977.4	5036.8	5074.5	5074.5
67.5°	4311.4	4416.6	4519.1	4511.0	4532.5
70°	3791.0	3831.5	3952.8	3971.7	4001.4
72.5°	3138.5	3243.7	3378.5	2523.8	857.4
75°	2558.8	2669.4	2774.5	453.0	334.3
77.5°	1987.2	2073.5	922.1	258.8	253.5
80°	1380.5	1518.0	231.9	237.3	245.4
82.5°	908.7	741.5	191.4	210.3	213.0
85°	461.1	137.5	151.0	156.4	153.7
87.5°	151.0	83.6	86.3	89.0	91.7
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)