

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: P730957

Luminaire Tested: **HBLED-LD5-36HE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730957
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-LD5-36HE-N-UNV-L850
Description: 36000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35516.0 lumens
Efficiency: N/A
Efficacy: 169.1 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

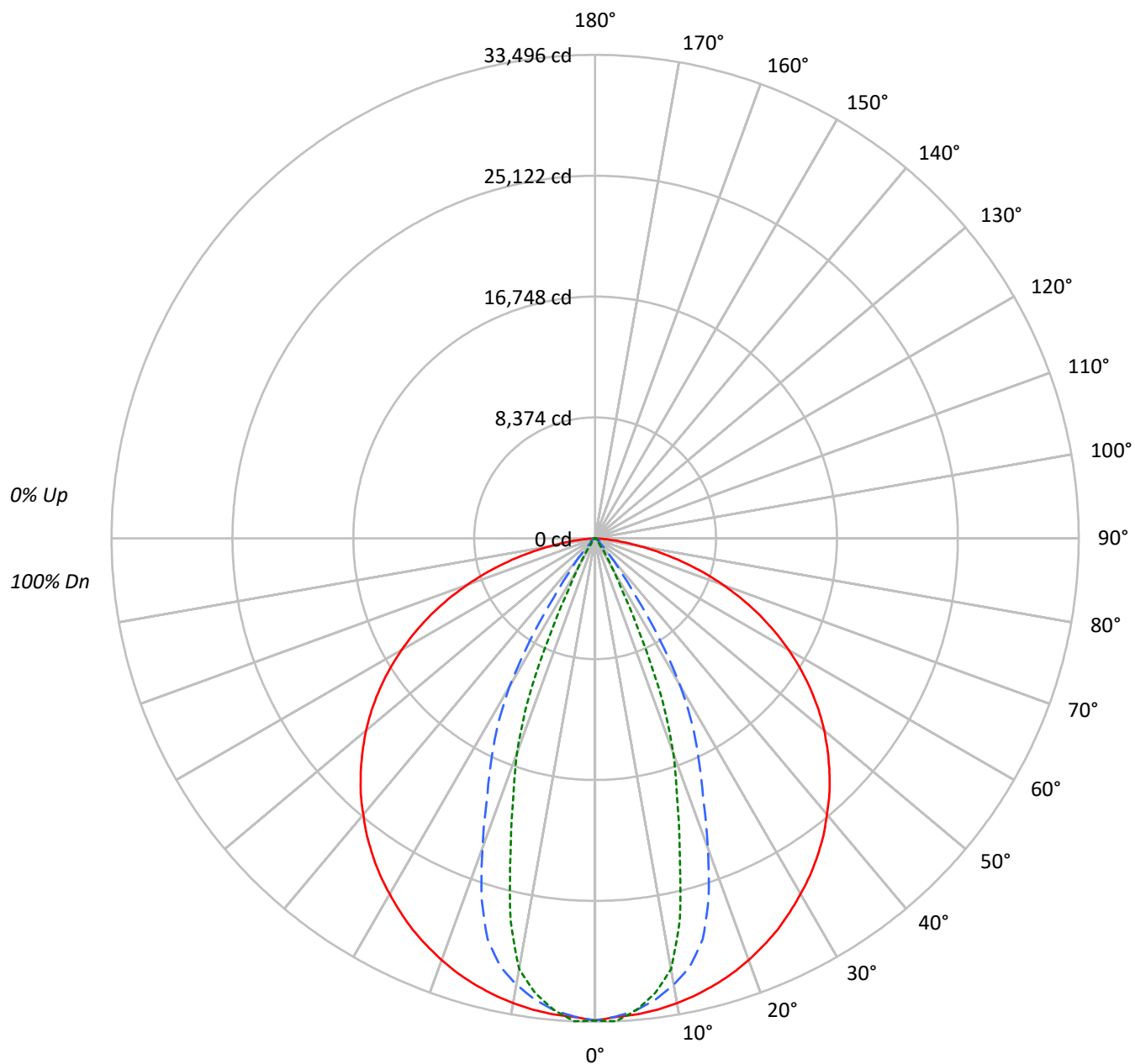
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53951	53951	53951
5°	53663	53189	53166
10°	53629	51485	49678
15°	53554	48099	37808
20°	53429	39210	27215
25°	53293	30318	13406
30°	53057	22034	4348
35°	52932	9775	1119
40°	52655	3970	754
45°	52419	1114	802
50°	52011	790	890
55°	51262	940	381
60°	49996	1047	231
65°	47940	668	274
70°	44537	593	338
75°	38961	447	466
80°	29131	547	666
85°	14429	706	882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3101.0	8.7
10°-20°	7754.0	21.8
20°-30°	8398.7	23.6
30°-40°	6219.6	17.5
40°-50°	4479.7	12.6
50°-60°	2773.8	7.8
60°-70°	1705.9	4.8
70°-80°	899.3	2.5
80°-90°	184.1	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°	19253.7	54.2
0°-40°	25473.3	71.7
0°-60°	32726.8	92.1
0°-90°	35516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33415	33415	33415	33415	33415	
5°	33110	33232	32817	32841	32803	###
15°	32038	31295	28775	24470	22618	9044
25°	29915	27402	17018	10706	7525	13784
35°	26855	18932	4960	1167	568	16801
45°	22957	10666	488	353	351	17705
55°	18210	2197	334	302	135	16257
65°	12548	232	175	111	72	12381
75°	6246	54	72	94	75	6597
85°	779	21	38	57	48	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33415.0	33415.0	33415.0	33415.0	33415.0
2.5°	33200.5	33412.0	33162.4	33348.4	33496.2
5°	33109.8	33232.3	32817.4	32841.2	32803.1
7.5°	32950.9	32922.3	32224.5	31919.3	31785.8
10°	32710.9	32521.7	31402.7	30765.2	30301.1
12.5°	32401.0	31978.1	30377.4	28350.6	27091.7
15°	32038.5	31294.6	28775.0	24470.5	22618.5
17.5°	31606.1	30552.2	26155.3	20509.0	18856.0
20°	31095.8	29724.0	22820.3	17449.1	15838.9
22.5°	30526.7	28716.2	19580.8	14501.9	12205.0
25°	29914.8	27401.7	17018.3	10706.0	7525.2
27.5°	29207.4	25711.9	14614.8	6306.0	3840.5
30°	28458.7	23677.1	11818.7	3392.2	2332.0
32.5°	27703.6	21370.6	8362.9	2118.9	1322.5
35°	26854.8	18932.2	4959.5	1166.8	567.6
37.5°	25969.3	16697.2	2931.2	531.0	364.0
40°	24982.3	14654.6	1883.6	352.8	357.6
42.5°	24028.5	12750.3	1060.3	348.1	354.5
45°	22957.0	10666.2	488.0	352.8	351.3
47.5°	21849.1	8505.9	316.3	356.1	356.1
50°	20706.3	6081.9	314.7	364.0	354.5
52.5°	19499.7	3794.4	327.5	362.5	290.9
55°	18210.5	2196.8	333.8	302.0	135.2
57.5°	16875.3	1295.5	337.0	173.3	76.3
60°	15482.7	716.9	324.3	128.7	71.6
62.5°	14047.3	341.8	255.9	120.9	69.9
65°	12548.3	232.1	174.8	111.2	71.6
67.5°	10992.1	179.6	138.2	104.9	73.1
70°	9434.3	133.5	125.6	104.9	71.6
72.5°	7851.1	90.6	104.9	106.4	71.6
75°	6245.5	54.1	71.6	93.9	74.7
77.5°	4654.3	33.3	55.6	96.9	90.6
80°	3133.0	28.6	58.8	90.6	71.6
82.5°	1839.2	25.5	57.3	69.9	57.3
85°	778.9	20.7	38.1	57.3	47.6
87.5°	146.2	17.5	30.3	46.1	41.3
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)