

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: P730951

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-CLI-UNV-L850
Description: 36000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32860.0 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

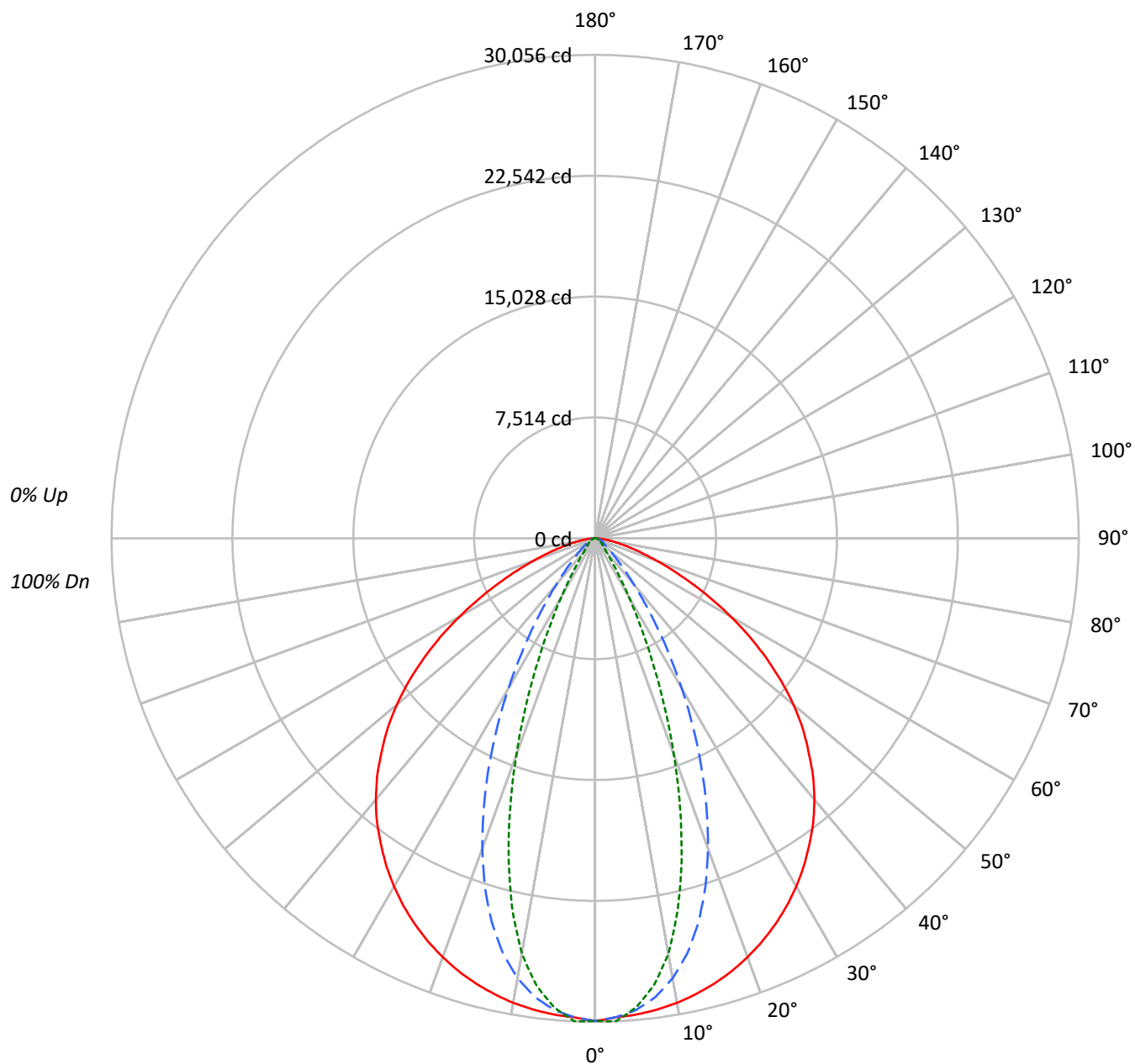
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48462	48462	48462
5°	48171	47692	47441
10°	48090	45532	42966
15°	47896	41388	34700
20°	47609	35217	24594
25°	47183	27770	14859
30°	46610	20042	7637
35°	45769	13103	3814
40°	44683	7871	2226
45°	42827	4700	1664
50°	40393	3074	1398
55°	36558	2332	1219
60°	31417	1986	1113
65°	25271	1812	1051
70°	19038	1941	1045
75°	14004	1845	1075
80°	10246	1837	1177
85°	7673	2227	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2764.2	8.4
10°-20°	6876.8	20.9
20°-30°	7617.1	23.2
30°-40°	6102.7	18.6
40°-50°	4356.5	13.3
50°-60°	2798.3	8.5
60°-70°	1516.5	4.6
70°-80°	648.2	2.0
80°-90°	179.8	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°	17258.2	52.5
0°-40°	23360.9	71.1
0°-60°	30515.6	92.9
0°-90°	32860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30015	30015	30015	30015	30015	
5°	29721	29832	29426	29332	29271	###
15°	28654	27758	24760	21882	20759	8085
25°	26485	23353	15588	10156	8341	12201
35°	23220	16796	6648	2681	1935	14518
45°	18756	9696	2058	876	729	14457
55°	12987	4335	828	509	433	11574
65°	6615	1780	474	327	275	6624
75°	2245	651	296	206	172	2494
85°	414	172	120	100	82	506
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30015.2	30015.2	30015.2	30015.2	30015.2
2.5°	29817.6	30004.2	29803.3	29928.2	30056.2
5°	29721.2	29831.9	29425.5	29332.2	29270.7
7.5°	29553.5	29521.9	28758.5	28263.6	28024.8
10°	29332.2	29076.1	27771.8	26684.3	26206.8
12.5°	29016.1	28488.1	26436.0	24526.3	23716.9
15°	28654.0	27757.7	24760.2	21881.5	20759.0
17.5°	28220.8	26903.9	22757.2	19045.3	17564.0
20°	27708.7	25873.3	20496.6	16032.0	14313.6
22.5°	27136.4	24684.4	18076.2	13028.3	11185.0
25°	26485.1	23353.2	15587.9	10155.8	8340.9
27.5°	25781.6	21875.2	13113.7	7588.4	5933.1
30°	25000.5	20275.2	10750.2	5471.6	4096.2
32.5°	24148.4	18574.2	8554.4	3847.9	2801.4
35°	23220.5	16795.7	6647.7	2681.2	1935.0
37.5°	22270.3	14980.7	5021.0	1895.4	1388.1
40°	21200.0	13172.1	3734.2	1388.1	1056.0
42.5°	20050.7	11398.4	2763.5	1068.6	855.3
45°	18756.0	9695.7	2058.4	875.9	728.9
47.5°	17500.8	8108.6	1563.5	746.2	633.9
50°	16081.1	6676.3	1223.6	651.4	556.4
52.5°	14574.5	5416.2	992.8	573.9	490.1
55°	12987.2	4334.8	828.3	509.0	433.2
57.5°	11379.4	3433.7	708.3	453.7	385.8
60°	9729.0	2746.0	615.0	406.3	344.6
62.5°	8118.0	2195.9	537.5	365.2	308.3
65°	6614.6	1780.0	474.3	327.3	275.1
67.5°	5224.8	1407.0	442.7	294.0	248.3
70°	4032.8	1095.6	411.1	262.4	221.3
72.5°	3055.8	841.1	363.7	234.0	196.1
75°	2244.8	651.4	295.7	205.5	172.3
77.5°	1606.2	501.2	240.3	178.6	148.7
80°	1101.9	373.2	197.6	153.3	126.6
82.5°	716.2	264.1	159.6	126.6	104.3
85°	414.2	172.3	120.2	99.6	82.1
87.5°	178.6	94.8	82.1	74.3	63.2
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)