

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: P730955

Luminaire Tested: **HBLED-LD5-36HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730955
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-L835
Description: 36000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33857.0 lumens
Efficiency: N/A
Efficacy: 161.2 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

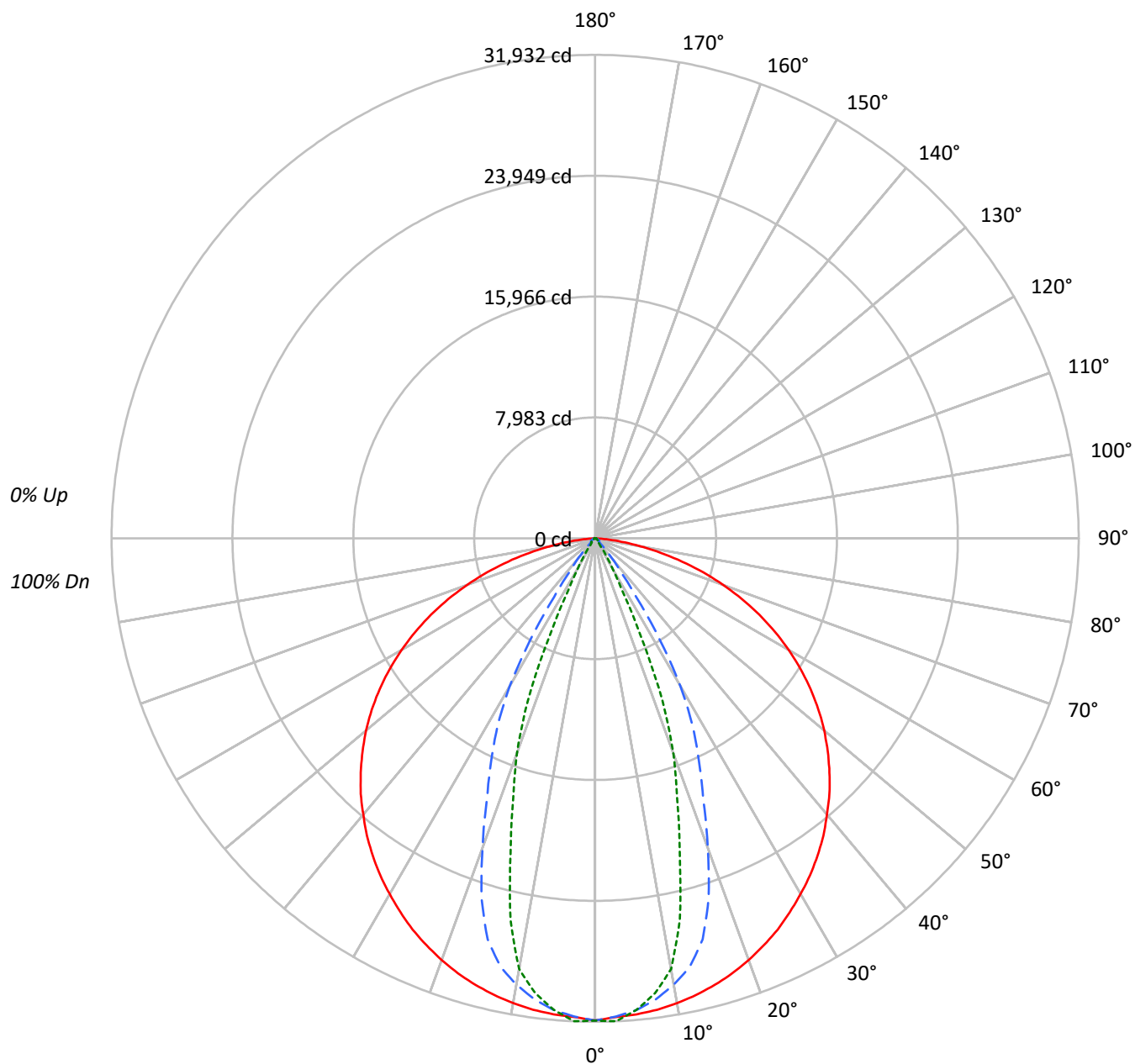
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51431	51431	51431
5°	51156	50704	50682
10°	51124	49080	47358
15°	51052	45852	36042
20°	50933	37378	25943
25°	50804	28902	12780
30°	50579	21005	4145
35°	50460	9319	1067
40°	50195	3785	719
45°	49971	1062	765
50°	49581	754	849
55°	48867	896	363
60°	47661	998	220
65°	45700	636	261
70°	42456	566	322
75°	37142	425	444
80°	27770	522	634
85°	13755	672	841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2956.1	8.7
10°-20°	7391.8	21.8
20°-30°	8006.4	23.6
30°-40°	5929.1	17.5
40°-50°	4270.5	12.6
50°-60°	2644.2	7.8
60°-70°	1626.2	4.8
70°-80°	857.3	2.5
80°-90°	175.5	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°	18354.3	54.2
0°-40°	24283.4	71.7
0°-60°	31198.1	92.1
0°-90°	33857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31854	31854	31854	31854	31854	
5°	31563	31680	31284	31307	31271	###
15°	30542	29833	27431	23327	21562	8622
25°	28517	26122	16223	10206	7174	13140
35°	25600	18048	4728	1112	541	16016
45°	21885	10168	465	336	335	16878
55°	17360	2094	318	288	129	15497
65°	11962	221	167	106	68	11803
75°	5954	52	68	90	71	6288
85°	742	20	36	55	45	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31854.2	31854.2	31854.2	31854.2	31854.2
2.5°	31649.6	31851.3	31613.3	31790.6	31931.5
5°	31563.2	31679.9	31284.4	31307.1	31270.8
7.5°	31411.7	31384.4	30719.2	30428.3	30301.0
10°	31183.0	31002.6	29935.8	29328.2	28885.7
12.5°	30887.5	30484.4	28958.4	27026.3	25826.2
15°	30541.9	29832.8	27430.9	23327.4	21561.9
17.5°	30129.7	29125.1	24933.6	19551.0	17975.2
20°	29643.3	28335.5	21754.3	16634.0	15099.0
22.5°	29100.8	27374.8	18666.2	13824.5	11634.9
25°	28517.4	26121.7	16223.3	10205.9	7173.6
27.5°	27843.1	24510.8	13932.2	6011.4	3661.1
30°	27129.4	22571.1	11266.6	3233.7	2223.1
32.5°	26409.6	20372.3	7972.3	2020.0	1260.7
35°	25600.4	18047.8	4727.9	1112.3	541.1
37.5°	24756.2	15917.3	2794.3	506.2	347.0
40°	23815.3	13970.1	1795.6	336.3	340.9
42.5°	22906.1	12154.7	1010.8	331.8	338.0
45°	21884.7	10167.9	465.2	336.3	334.9
47.5°	20828.5	8108.6	301.5	339.4	339.4
50°	19739.0	5797.8	300.0	347.0	338.0
52.5°	18588.9	3617.2	312.2	345.6	277.3
55°	17359.9	2094.2	318.2	287.9	128.9
57.5°	16087.0	1235.0	321.3	165.2	72.8
60°	14759.5	683.4	309.1	122.7	68.2
62.5°	13391.1	325.8	243.9	115.2	66.6
65°	11962.1	221.3	166.6	106.0	68.2
67.5°	10478.7	171.2	131.8	100.0	69.7
70°	8993.6	127.2	119.8	100.0	68.2
72.5°	7484.4	86.4	100.0	101.5	68.2
75°	5953.8	51.5	68.2	89.5	71.2
77.5°	4436.9	31.8	53.0	92.4	86.4
80°	2986.7	27.2	56.1	86.4	68.2
82.5°	1753.3	24.3	54.6	66.6	54.6
85°	742.5	19.8	36.3	54.6	45.4
87.5°	139.4	16.7	28.8	43.9	39.4
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)