

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: P730950

Luminaire Tested: **HBLED-LD5-36HE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730950
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-L840
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: 32228.0 lumens
Efficiency: N/A
Efficacy: 153.5 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

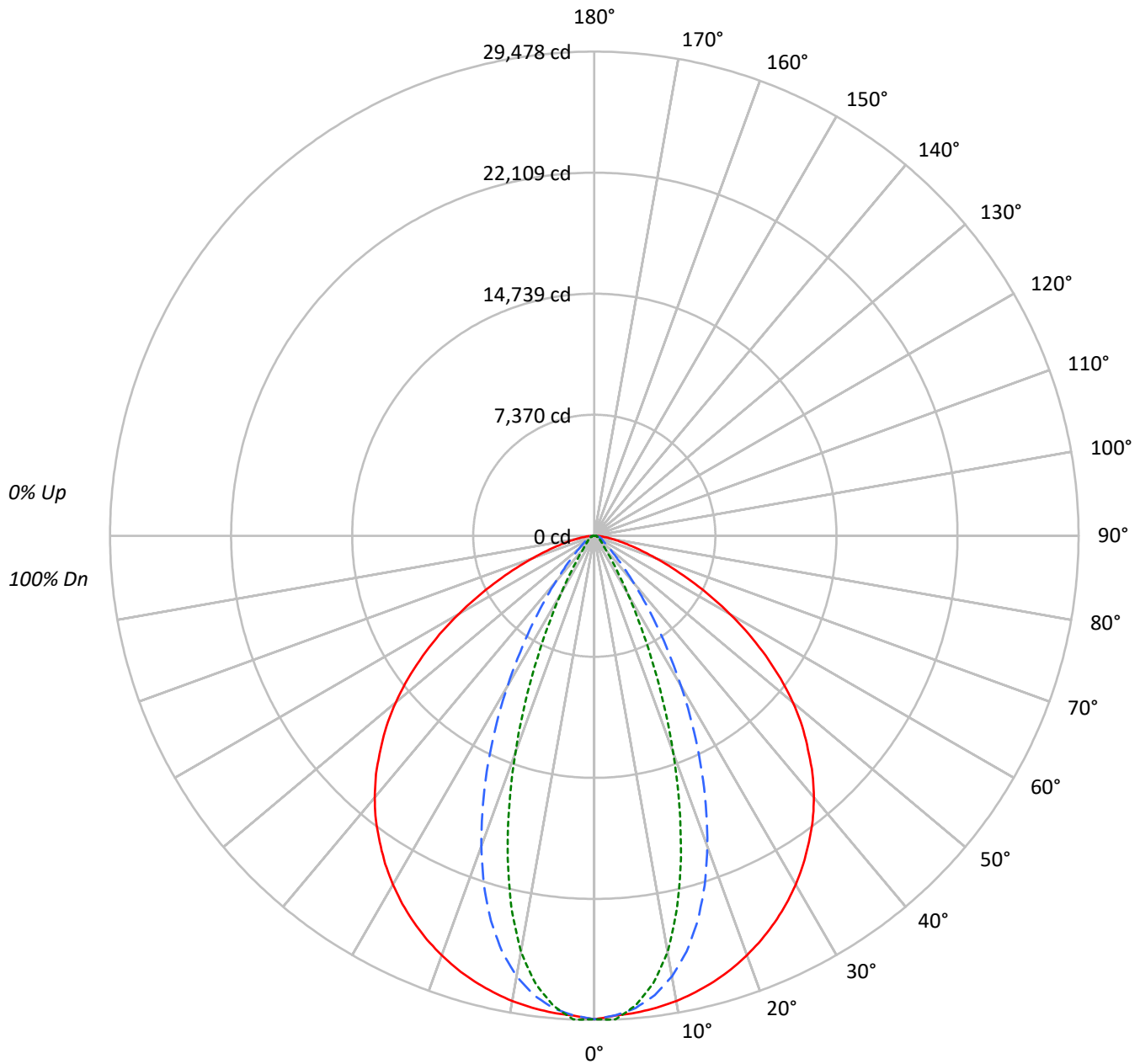
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47530	47530	47530
5°	47244	46774	46528
10°	47165	44656	42140
15°	46975	40592	34032
20°	46694	34540	24121
25°	46276	27236	14574
30°	45714	19657	7490
35°	44888	12851	3741
40°	43824	7719	2183
45°	42003	4610	1632
50°	39616	3014	1371
55°	35855	2287	1196
60°	30812	1948	1091
65°	24785	1777	1031
70°	18672	1903	1025
75°	13734	1809	1054
80°	10048	1802	1154
85°	7527	2184	1493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2711.1	8.4
10°-20°	6744.6	20.9
20°-30°	7470.6	23.2
30°-40°	5985.3	18.6
40°-50°	4272.7	13.3
50°-60°	2744.4	8.5
60°-70°	1487.3	4.6
70°-80°	635.7	2.0
80°-90°	176.3	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°	16926.3	52.5
0°-40°	22911.5	71.1
0°-60°	29928.7	92.9
0°-90°	32228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29438	29438	29438	29438	29438	
5°	29150	29258	28860	28768	28708	###
15°	28103	27224	24284	21461	20360	7929
25°	25976	22904	15288	9960	8180	11967
35°	22774	16473	6520	2630	1898	14239
45°	18395	9509	2019	859	715	14179
55°	12737	4252	812	499	425	11351
65°	6487	1746	465	321	270	6496
75°	2202	639	290	202	169	2446
85°	406	169	118	98	81	496
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29437.9	29437.9	29437.9	29437.9	29437.9
2.5°	29244.1	29427.1	29230.1	29352.6	29478.2
5°	29149.5	29258.2	28859.5	28768.0	28707.7
7.5°	28985.1	28954.1	28205.4	27720.0	27485.8
10°	28768.0	28516.9	27237.7	26171.1	25702.8
12.5°	28458.0	27940.2	25927.5	24054.5	23260.7
15°	28102.9	27223.8	24284.0	21460.6	20359.7
17.5°	27678.1	26386.5	22319.5	18679.0	17226.2
20°	27175.7	25375.6	20102.4	15723.7	14038.3
22.5°	26614.5	24209.6	17728.5	12777.7	10969.9
25°	25975.7	22904.1	15288.1	9960.5	8180.5
27.5°	25285.8	21454.4	12861.5	7442.4	5819.0
30°	24519.7	19885.3	10543.4	5366.4	4017.4
32.5°	23684.0	18217.0	8389.9	3773.9	2747.5
35°	22773.9	16472.6	6519.8	2629.6	1897.8
37.5°	21842.0	14692.6	4924.4	1859.0	1361.4
40°	20792.3	12918.8	3662.3	1361.4	1035.7
42.5°	19665.1	11179.2	2710.3	1048.1	838.8
45°	18395.2	9509.2	2018.8	859.0	714.9
47.5°	17164.2	7952.6	1533.4	731.8	621.7
50°	15771.8	6547.9	1200.1	638.9	545.7
52.5°	14294.2	5312.1	973.7	562.8	480.6
55°	12737.4	4251.5	812.4	499.2	424.9
57.5°	11160.6	3367.6	694.6	444.9	378.4
60°	9541.8	2693.2	603.1	398.4	337.9
62.5°	7961.9	2153.7	527.1	358.2	302.4
65°	6487.4	1745.8	465.2	321.0	269.8
67.5°	5124.3	1380.0	434.2	288.4	243.5
70°	3955.3	1074.5	403.2	257.4	217.1
72.5°	2997.1	824.9	356.7	229.5	192.3
75°	2201.6	638.9	290.0	201.6	169.0
77.5°	1575.4	491.6	235.7	175.2	145.8
80°	1080.7	366.0	193.8	150.4	124.1
82.5°	702.5	259.0	156.6	124.1	102.3
85°	406.3	169.0	117.9	97.7	80.6
87.5°	175.2	93.0	80.6	72.9	62.0
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)