

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: P730962

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-AI-UNV-L840
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31903.0 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

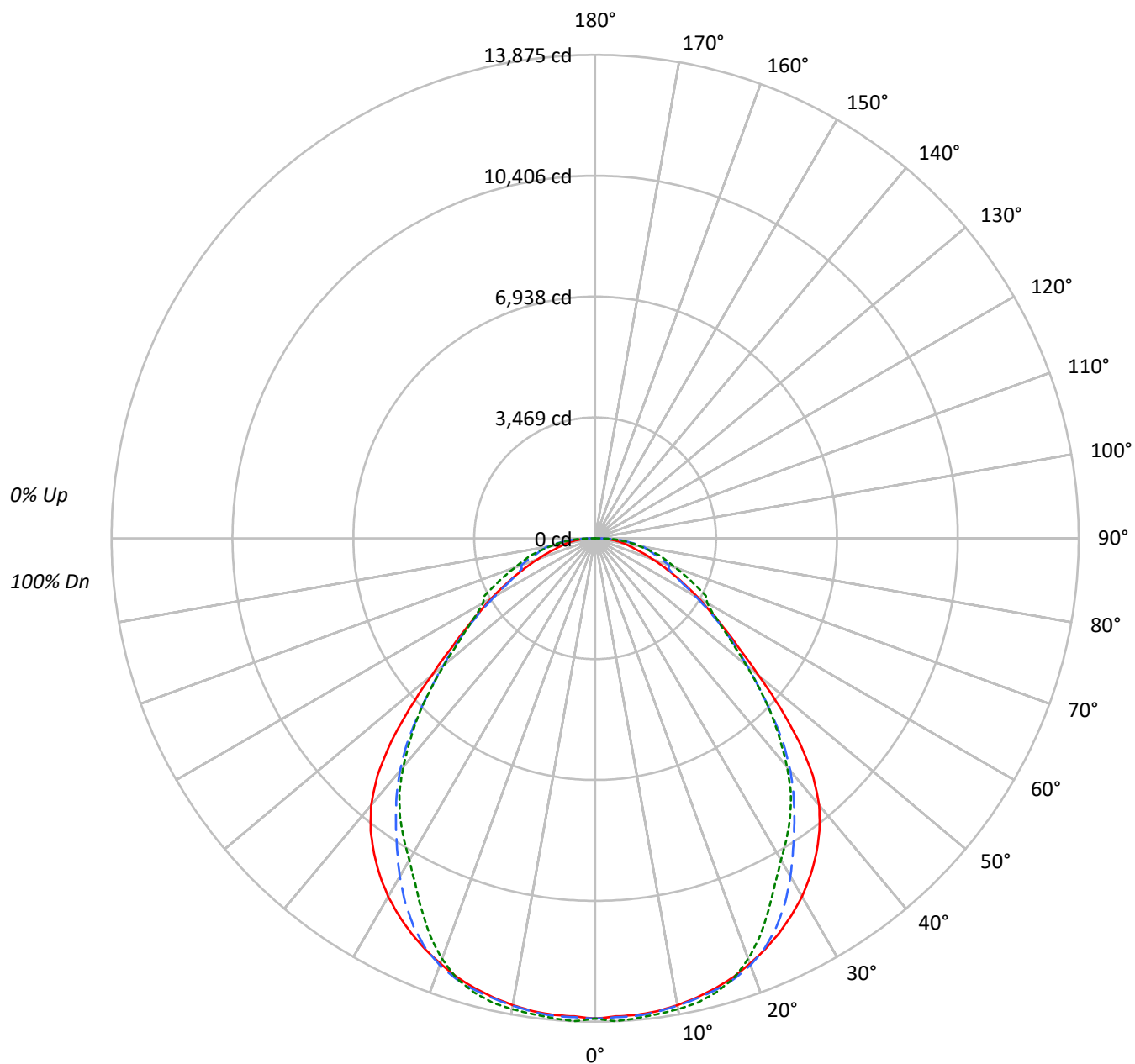
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22254	22254	22254
5°	22253	22301	22410
10°	22308	22336	22500
15°	22342	22426	22535
20°	22320	22403	22071
25°	22263	21930	20976
30°	22132	20895	19877
35°	21799	19639	19230
40°	21070	18363	18060
45°	18938	16397	16336
50°	15360	14282	14184
55°	12754	12517	12512
60°	11042	10720	11985
65°	9570	9511	12081
70°	8252	10668	11516
75°	7400	10934	12005
80°	7691	12871	12045
85°	8731	14833	13762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1312.3	4.1
10°-20°	3790.1	11.9
20°-30°	5629.1	17.6
30°-40°	6390.6	20.0
40°-50°	5712.9	17.9
50°-60°	3949.9	12.4
60°-70°	2606.4	8.2
70°-80°	1758.4	5.5
80°-90°	753.1	2.4
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°	10731.5	33.6
0°-40°	17122.2	53.7
0°-60°	26785.0	84.0
0°-90°	31903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13783	13783	13783	13783	13783	
5°	13730	13814	13760	13816	13827	###
15°	13366	13430	13416	13491	13482	3773
25°	12497	12616	12310	11943	11774	5758
35°	11060	10827	9964	9819	9756	6897
45°	8294	7592	7181	7236	7154	6307
55°	4531	4136	4447	4384	4445	4115
65°	2505	2224	2489	2911	3162	2500
75°	1186	1492	1753	1873	1924	1295
85°	471	656	801	805	743	491
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13783.1	13783.1	13783.1	13783.1	13783.1
2.5°	13736.3	13822.1	13758.1	13817.4	13875.1
5°	13730.0	13814.3	13759.6	13815.8	13826.8
7.5°	13691.0	13769.0	13705.0	13759.6	13772.1
10°	13606.7	13698.8	13623.8	13708.1	13723.8
12.5°	13497.5	13591.1	13525.5	13641.0	13647.3
15°	13366.3	13430.3	13416.3	13491.2	13481.8
17.5°	13200.9	13274.3	13263.3	13282.0	13238.4
20°	12990.2	13072.9	13038.5	12952.7	12845.1
22.5°	12763.9	12863.7	12728.1	12511.1	12359.6
25°	12496.9	12615.6	12309.8	11943.0	11774.4
27.5°	12202.0	12308.1	11799.3	11349.9	11175.1
30°	11871.2	11916.3	11207.8	10780.1	10661.5
32.5°	11488.7	11423.2	10575.7	10293.2	10224.5
35°	11059.6	10827.0	9963.9	9818.7	9756.2
37.5°	10575.7	10149.7	9359.9	9292.8	9227.1
40°	9996.7	9367.6	8712.2	8668.5	8568.5
42.5°	9249.1	8517.0	7992.6	7941.1	7852.1
45°	8293.9	7591.5	7181.0	7235.7	7154.5
47.5°	7195.0	6662.9	6402.3	6552.1	6402.3
50°	6115.0	5757.7	5685.9	5821.7	5646.9
52.5°	5230.1	4908.6	5056.9	5080.3	4975.8
55°	4530.8	4136.0	4446.7	4384.2	4445.0
57.5°	3922.2	3480.4	3862.9	3791.1	4000.2
60°	3419.6	2923.3	3319.8	3304.1	3711.4
62.5°	2926.5	2530.0	2848.4	3077.8	3578.8
65°	2505.0	2224.1	2489.4	2910.8	3162.1
67.5°	2100.8	1994.6	2277.1	2511.2	2786.0
70°	1748.0	1802.6	2259.9	2216.3	2439.4
72.5°	1451.5	1637.3	1994.6	2002.4	2160.1
75°	1186.2	1492.2	1752.8	1873.0	1924.4
77.5°	986.4	1353.2	1582.7	1624.8	1574.8
80°	827.2	1192.4	1384.3	1365.7	1295.4
82.5°	667.9	903.7	1091.0	1108.2	1025.4
85°	471.3	655.6	800.7	805.4	742.9
87.5°	252.8	404.3	485.4	499.4	462.0
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)