

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: P730981

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-UNV-L850
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36880.0 lumens
Efficiency: N/A
Efficacy: 175.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

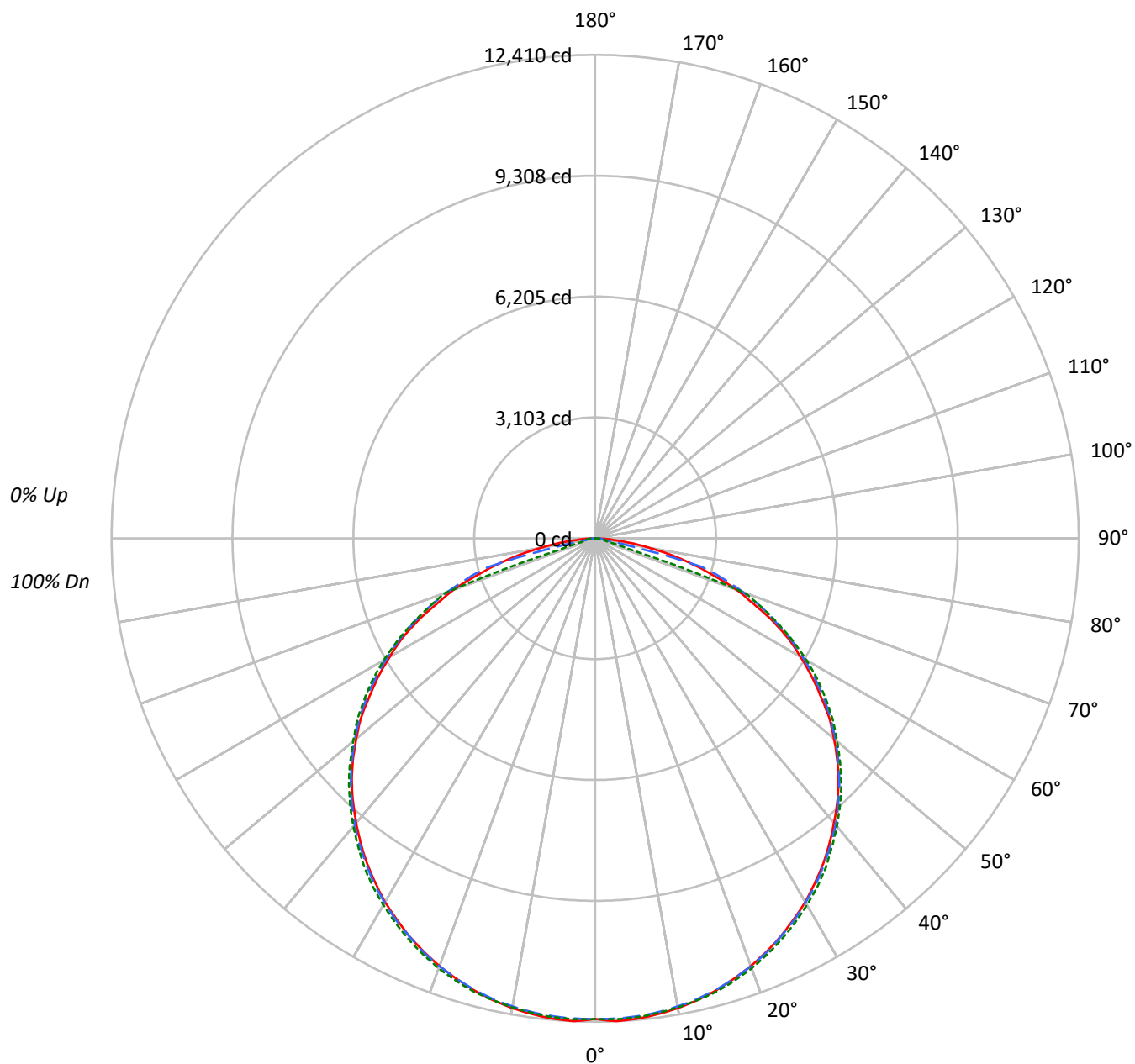
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19926	19926	19926
5°	20069	19966	20002
10°	20080	20008	20048
15°	20077	20050	20142
20°	20076	20080	20184
25°	20085	20095	20218
30°	20107	20133	20266
35°	20104	20169	20337
40°	20107	20234	20344
45°	20163	20238	20402
50°	20102	20219	20351
55°	19881	20160	20376
60°	19655	19975	20223
65°	19221	19620	19767
70°	18248	19026	19260
75°	16276	17647	2127
80°	13088	2198	2326
85°	8709	2853	2903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1172.1	3.2
10°-20°	3386.9	9.2
20°-30°	5203.7	14.1
30°-40°	6406.0	17.4
40°-50°	6829.4	18.5
50°-60°	6384.1	17.3
60°-70°	5053.9	13.7
70°-80°	2150.2	5.8
80°-90°	293.6	0.8
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°	9762.8	26.5
0°-40°	16168.8	43.8
0°-60°	29382.3	79.7
0°-90°	36880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12341	12341	12341	12341	12341	
5°	12382	12327	12319	12270	12341	###
15°	12011	11989	11995	11962	12050	3391
25°	11274	11261	11280	11274	11349	5198
35°	10200	10183	10232	10268	10318	6382
45°	8830	8781	8863	8899	8935	6804
55°	7063	7085	7162	7186	7239	6324
65°	5031	5075	5136	5174	5174	4949
75°	2609	2722	2829	462	341	2760
85°	470	140	154	160	157	613
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12341.1	12341.1	12341.1	12341.1	12341.1
2.5°	12409.8	12352.1	12341.1	12291.6	12357.6
5°	12382.3	12327.4	12319.1	12269.6	12341.1
7.5°	12324.6	12280.6	12275.1	12222.9	12294.4
10°	12247.6	12206.4	12203.6	12156.9	12228.4
12.5°	12143.2	12107.4	12118.4	12071.7	12143.2
15°	12011.2	11989.2	11994.7	11961.7	12049.7
17.5°	11851.7	11840.8	11851.7	11827.0	11906.7
20°	11684.0	11670.3	11686.8	11673.0	11747.3
22.5°	11488.9	11472.4	11505.3	11486.1	11554.8
25°	11274.4	11260.7	11279.9	11274.4	11348.6
27.5°	11029.7	11016.0	11057.2	11060.0	11117.7
30°	10785.1	10765.8	10798.8	10812.6	10870.3
32.5°	10493.6	10488.2	10537.6	10548.6	10609.1
35°	10199.5	10183.0	10232.5	10268.2	10317.7
37.5°	9877.8	9875.1	9927.3	9957.6	9982.3
40°	9539.7	9525.9	9600.2	9630.4	9652.4
42.5°	9196.0	9165.8	9237.3	9275.8	9300.5
45°	8830.4	8780.9	8863.4	8899.1	8934.9
47.5°	8429.0	8385.0	8464.7	8503.2	8528.0
50°	8002.9	7961.6	8049.6	8082.6	8101.9
52.5°	7574.0	7532.8	7626.2	7653.7	7700.5
55°	7062.7	7084.7	7161.6	7186.4	7238.6
57.5°	6589.8	6609.0	6683.3	6713.5	6774.0
60°	6086.7	6116.9	6185.7	6215.9	6262.6
62.5°	5600.1	5602.8	5685.3	5699.1	5734.8
65°	5031.0	5075.0	5135.5	5174.0	5174.0
67.5°	4396.0	4503.2	4607.6	4599.4	4621.4
70°	3865.4	3906.6	4030.3	4049.6	4079.8
72.5°	3200.1	3307.3	3444.7	2573.2	874.2
75°	2609.0	2721.7	2828.9	461.9	340.9
77.5°	2026.2	2114.1	940.2	263.9	258.4
80°	1407.6	1547.8	236.4	241.9	250.2
82.5°	926.5	756.0	195.2	214.4	217.2
85°	470.1	140.2	154.0	159.5	156.7
87.5°	154.0	85.2	88.0	90.7	93.5
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)