

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: P730975

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-FLI-UNV-L850
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32750.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

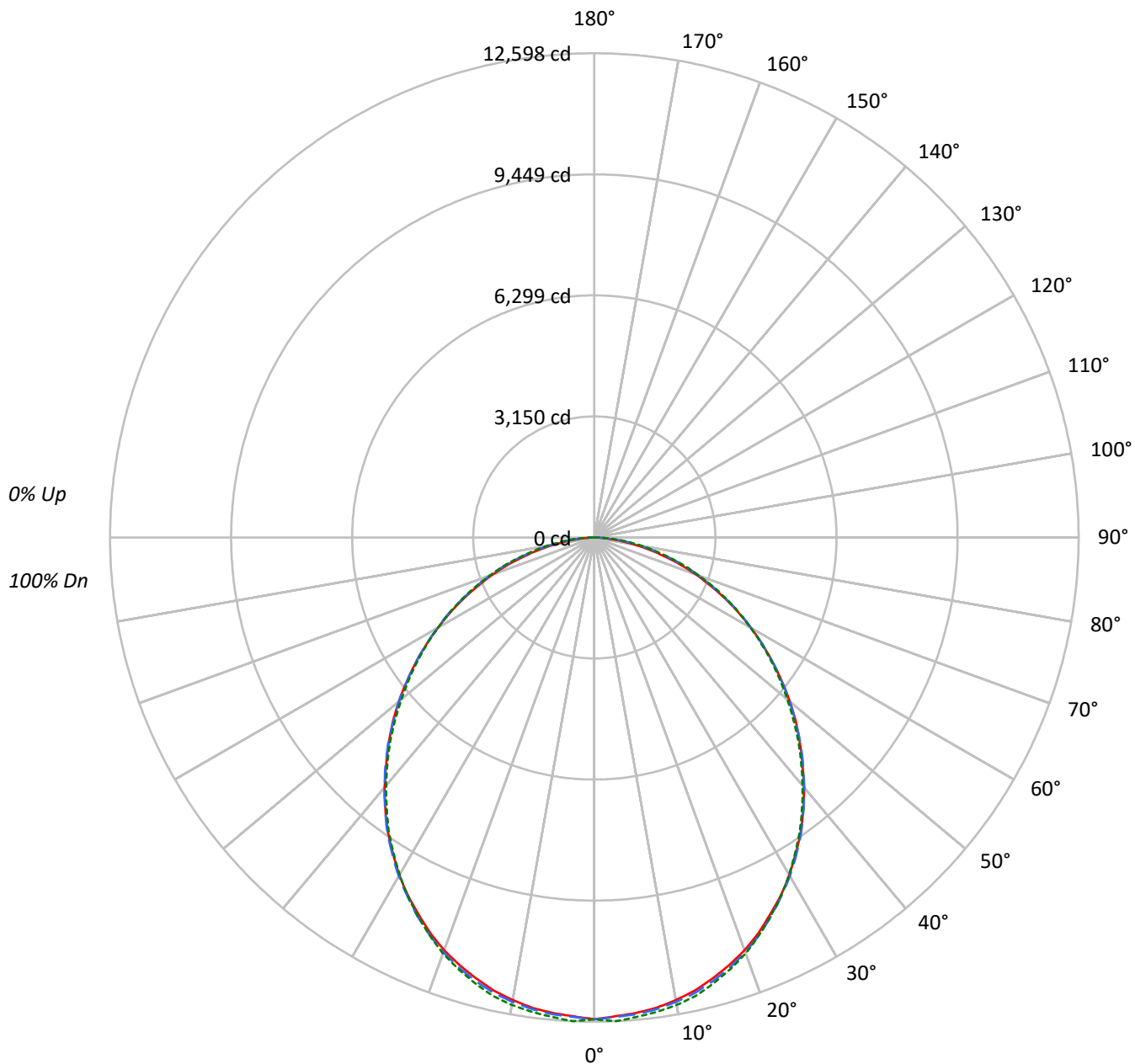
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20243	20243	20243
5°	20128	20185	20300
10°	20036	20118	20248
15°	19860	19968	20066
20°	19636	19730	19787
25°	19272	19381	19353
30°	18917	18967	18890
35°	18448	18495	18378
40°	17894	17894	17756
45°	17268	17315	17139
50°	16675	16646	16438
55°	15953	15955	15812
60°	15180	15198	15139
65°	14307	14450	14487
70°	13215	13576	13591
75°	11679	12435	12628
80°	9579	10890	11505
85°	6647	9144	10339



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1185.7	3.6
10°-20°	3373.2	10.3
20°-30°	5012.8	15.3
30°-40°	5861.3	17.9
40°-50°	5843.8	17.8
50°-60°	5070.3	15.5
60°-70°	3745.0	11.4
70°-80°	2096.8	6.4
80°-90°	559.5	1.7
90°-100°	1.7	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°	9571.7	29.2
0°-40°	15433.0	47.1
0°-60°	26347.1	80.4
0°-90°	32748.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	32750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12538	12538	12538	12538	12538	
5°	12419	12497	12454	12509	12525	###
15°	11882	11964	11946	12004	12004	3351
25°	10818	10905	10879	10903	10863	4987
35°	9360	9442	9384	9382	9324	5846
45°	7562	7643	7583	7552	7506	5838
55°	5667	5706	5668	5658	5617	5068
65°	3745	3782	3782	3802	3792	3704
75°	1872	1928	1993	2008	2024	1994
85°	359	434	494	537	558	436
90°	0	8	10	22	20	15
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P730975

CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12537.6	12537.6	12537.6	12537.6	12537.6
2.5°	12469.1	12543.3	12491.4	12540.8	12598.3
5°	12418.8	12497.1	12453.9	12508.9	12524.9
7.5°	12345.5	12421.3	12379.8	12434.8	12451.6
10°	12221.1	12303.3	12270.6	12332.8	12350.3
12.5°	12076.0	12153.3	12131.8	12204.3	12216.3
15°	11881.5	11964.5	11946.0	12003.5	12004.3
17.5°	11666.2	11744.3	11730.7	11775.5	11773.8
20°	11427.9	11511.5	11482.9	11531.4	11516.2
22.5°	11145.6	11234.9	11198.9	11239.6	11201.4
25°	10817.8	10904.8	10879.3	10903.1	10863.3
27.5°	10500.5	10580.3	10527.6	10556.3	10514.0
30°	10146.5	10214.2	10173.7	10183.2	10132.2
32.5°	9748.6	9829.2	9779.7	9778.2	9723.9
35°	9359.6	9441.6	9383.5	9381.9	9323.8
37.5°	8929.0	9005.5	8937.0	8941.0	8873.2
40°	8489.7	8555.9	8489.7	8486.5	8424.4
42.5°	8012.9	8100.6	8040.1	8047.1	7964.3
45°	7562.5	7643.0	7583.2	7552.0	7505.8
47.5°	7113.6	7148.7	7099.2	7091.2	7025.9
50°	6638.4	6664.6	6627.1	6617.6	6544.3
52.5°	6147.3	6192.7	6144.8	6132.0	6083.5
55°	5667.2	5706.3	5668.0	5658.5	5617.0
57.5°	5184.1	5235.1	5196.1	5186.4	5153.1
60°	4701.0	4716.1	4706.5	4720.8	4688.2
62.5°	4221.0	4256.0	4267.2	4263.2	4237.7
65°	3744.9	3781.6	3782.4	3801.6	3791.9
67.5°	3257.8	3305.6	3319.3	3339.1	3347.8
70°	2799.3	2836.0	2875.9	2887.8	2879.0
72.5°	2337.7	2396.7	2441.4	2451.7	2489.2
75°	1872.1	1927.8	1993.3	2007.6	2024.3
77.5°	1440.0	1514.0	1573.0	1592.2	1613.0
80°	1030.2	1112.2	1171.2	1197.5	1237.4
82.5°	676.1	759.9	819.6	845.9	894.6
85°	358.8	433.8	493.6	537.4	558.1
87.5°	106.0	169.8	204.1	216.8	235.3
90°	0.0	8.0	9.5	21.5	20.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L850

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)