

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: P730972

Luminaire Tested: **HBLED-LD5-36HE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730972
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-L750
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34459.0 lumens
Efficiency: N/A
Efficacy: 164.1 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

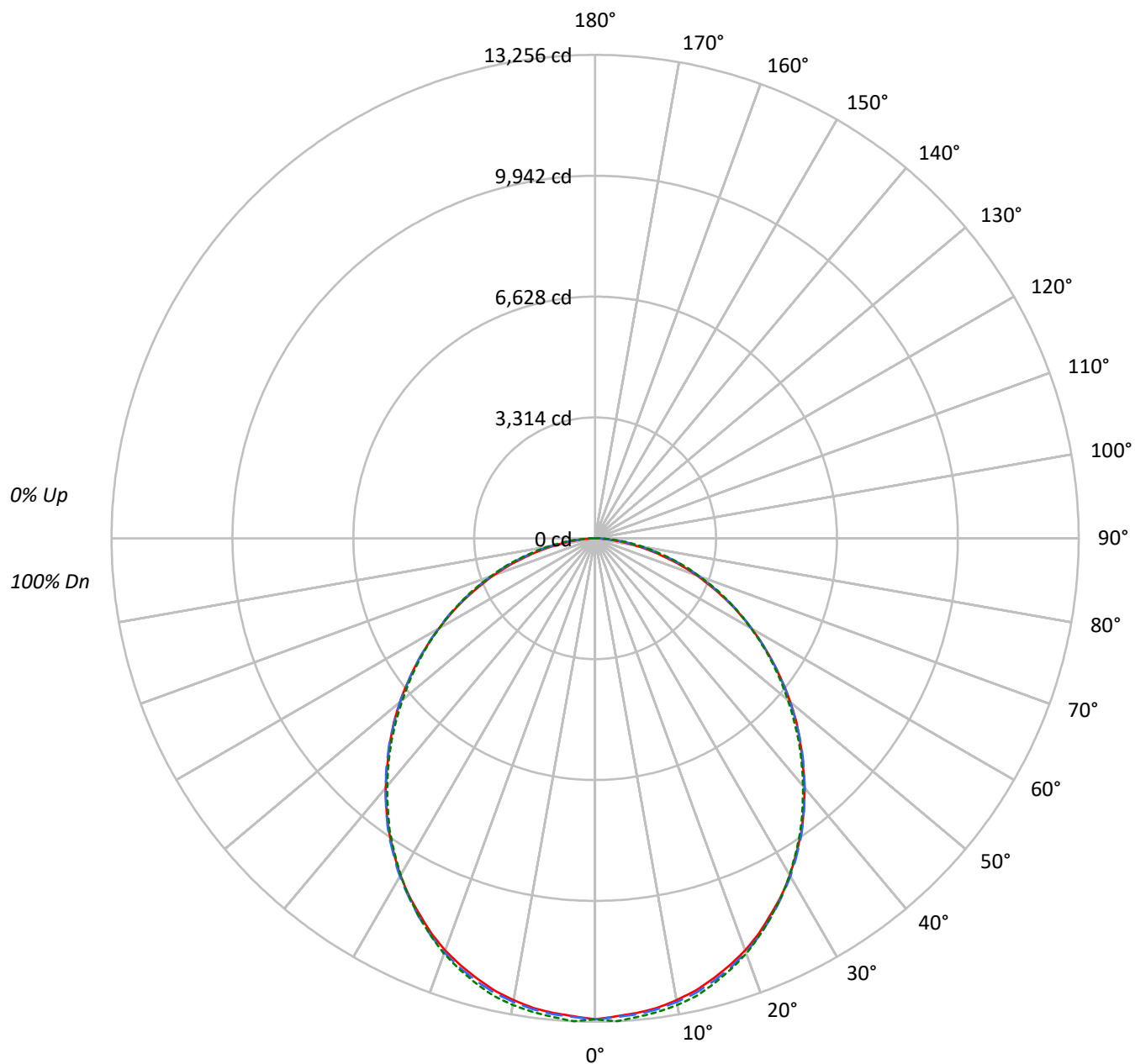
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21299	21299	21299
5°	21178	21238	21359
10°	21082	21167	21305
15°	20897	21010	21113
20°	20660	20760	20820
25°	20278	20393	20363
30°	19904	19957	19876
35°	19411	19461	19337
40°	18827	18827	18683
45°	18169	18219	18033
50°	17545	17515	17296
55°	16786	16788	16637
60°	15972	15991	15929
65°	15054	15205	15243
70°	13904	14285	14301
75°	12288	13084	13288
80°	10078	11458	12106
85°	6993	9620	10878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.6	3.6
10°-20°	3549.2	10.3
20°-30°	5274.4	15.3
30°-40°	6167.1	17.9
40°-50°	6148.8	17.8
50°-60°	5334.9	15.5
60°-70°	3940.4	11.4
70°-80°	2206.2	6.4
80°-90°	588.6	1.7
90°-100°	1.8	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°	10071.2	29.2
0°-40°	16238.3	47.1
0°-60°	27722.0	80.4
0°-90°	34457.2	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	34459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13192	13192	13192	13192	13192	
5°	13067	13149	13104	13162	13178	###
15°	12502	12589	12569	12630	12631	3526
25°	11382	11474	11447	11472	11430	5248
35°	9848	9934	9873	9871	9810	6152
45°	7957	8042	7979	7946	7898	6143
55°	5963	6004	5964	5954	5910	5332
65°	3940	3979	3980	4000	3990	3897
75°	1970	2028	2097	2112	2130	2098
85°	378	456	519	565	587	458
90°	0	8	10	23	21	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13191.9	13191.9	13191.9	13191.9	13191.9
2.5°	13119.8	13197.9	13143.2	13195.3	13255.7
5°	13066.9	13149.2	13103.8	13161.6	13178.5
7.5°	12989.8	13069.5	13025.8	13083.7	13101.3
10°	12858.8	12945.3	12910.9	12976.4	12994.8
12.5°	12706.2	12787.5	12764.9	12841.2	12853.8
15°	12501.5	12588.8	12569.4	12629.9	12630.7
17.5°	12275.0	12357.1	12342.9	12389.9	12388.2
20°	12024.2	12112.2	12082.1	12133.2	12117.2
22.5°	11727.2	11821.1	11783.3	11826.2	11785.9
25°	11382.3	11473.9	11447.0	11472.1	11430.2
27.5°	11048.5	11132.4	11076.9	11107.2	11062.7
30°	10676.0	10747.3	10704.6	10714.6	10660.9
32.5°	10257.4	10342.1	10290.0	10288.4	10231.3
35°	9848.0	9934.3	9873.2	9871.4	9810.3
37.5°	9395.0	9475.5	9403.4	9407.6	9336.3
40°	8932.7	9002.4	8932.7	8929.3	8864.0
42.5°	8431.0	8523.3	8459.6	8467.1	8379.9
45°	7957.1	8041.8	7979.0	7946.1	7897.5
47.5°	7484.9	7521.7	7469.7	7461.3	7392.5
50°	6984.8	7012.4	6973.0	6963.0	6885.8
52.5°	6468.0	6515.9	6465.5	6452.0	6400.9
55°	5963.0	6004.0	5963.8	5953.7	5910.1
57.5°	5454.6	5508.3	5467.2	5457.1	5422.0
60°	4946.3	4962.1	4952.1	4967.2	4932.9
62.5°	4441.2	4478.1	4489.9	4485.7	4458.8
65°	3940.3	3979.0	3979.8	4000.0	3989.8
67.5°	3427.8	3478.1	3492.5	3513.3	3522.5
70°	2945.3	2984.0	3026.0	3038.5	3029.3
72.5°	2459.7	2521.7	2568.8	2579.6	2619.1
75°	1969.8	2028.4	2097.3	2112.4	2130.0
77.5°	1515.1	1593.0	1655.1	1675.3	1697.2
80°	1083.9	1170.2	1232.3	1260.0	1302.0
82.5°	711.4	799.5	862.4	890.1	941.3
85°	377.5	456.4	519.3	565.4	587.2
87.5°	111.6	178.7	214.7	228.1	247.5
90°	0.0	8.4	10.0	22.6	21.0
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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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)