

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: P731038

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731038
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-LD5-36SE-W-FLI-UNV-L750
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34908.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

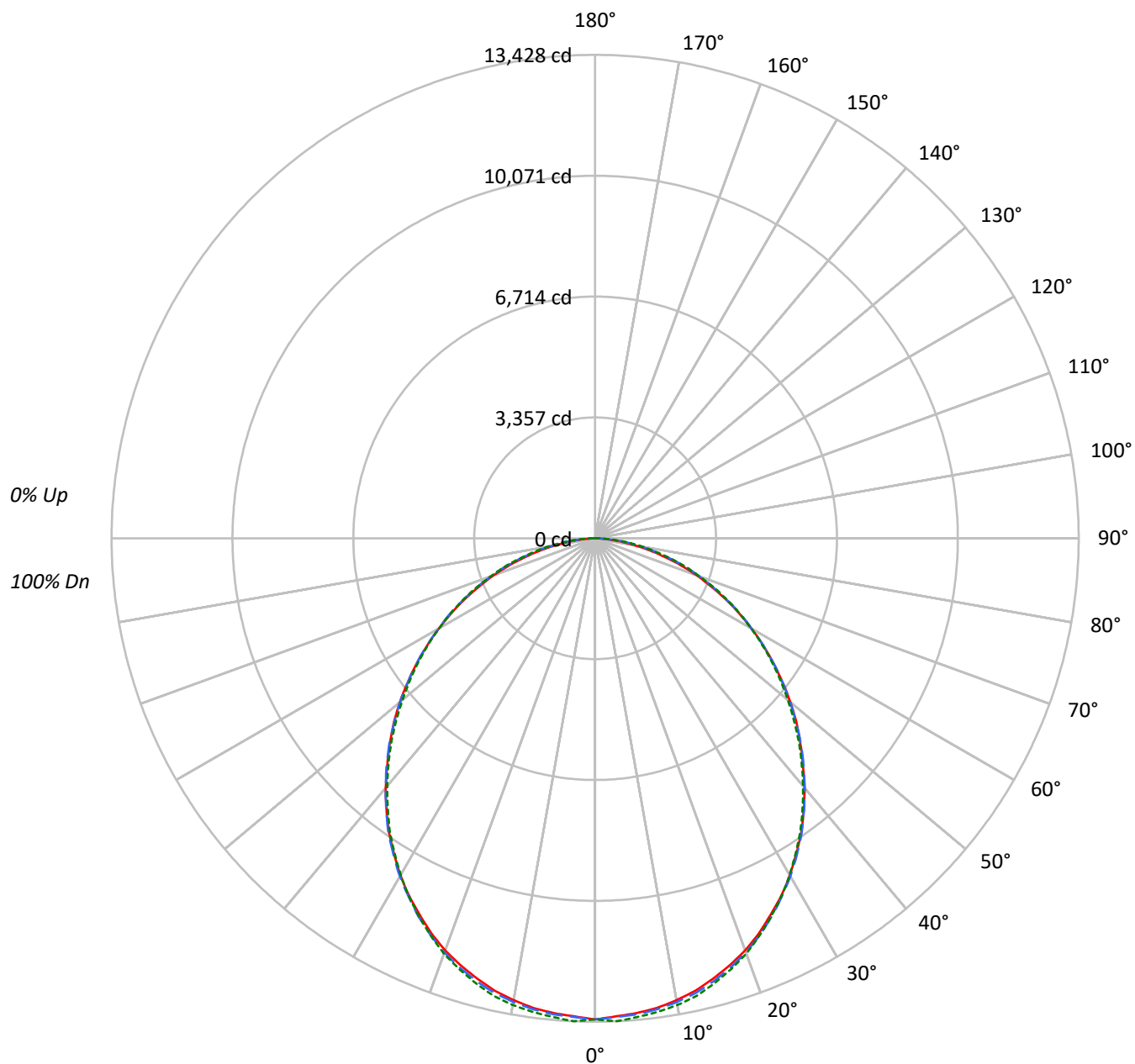
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21577	21577	21577
5°	21454	21515	21637
10°	21357	21443	21582
15°	21169	21284	21388
20°	20929	21030	21091
25°	20542	20659	20628
30°	20163	20217	20135
35°	19664	19714	19588
40°	19073	19073	18926
45°	18406	18456	18268
50°	17773	17743	17522
55°	17004	17007	16853
60°	16181	16200	16137
65°	15250	15402	15441
70°	14085	14471	14487
75°	12448	13254	13460
80°	10209	11608	12264
85°	7084	9746	11021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1263.9	3.6
10°-20°	3595.5	10.3
20°-30°	5343.1	15.3
30°-40°	6247.5	17.9
40°-50°	6228.9	17.8
50°-60°	5404.4	15.5
60°-70°	3991.8	11.4
70°-80°	2234.9	6.4
80°-90°	596.3	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°	10202.4	29.2
0°-40°	16449.9	47.1
0°-60°	28083.2	80.4
0°-90°	34906.2	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	34908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13364	13364	13364	13364	13364	
5°	13237	13320	13274	13333	13350	###
15°	12664	12753	12733	12794	12795	3572
25°	11531	11623	11596	11622	11579	5316
35°	9976	10064	10002	10000	9938	6232
45°	8061	8147	8083	8050	8000	6223
55°	6041	6082	6042	6031	5987	5402
65°	3992	4031	4032	4052	4042	3948
75°	1995	2055	2125	2140	2158	2125
85°	382	462	526	573	595	464
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°	13363.8	13363.8	13363.8	13363.8	13363.8
2.5°	13290.7	13369.8	13314.5	13367.2	13428.5
5°	13237.2	13320.5	13274.5	13333.1	13350.2
7.5°	13159.0	13239.8	13195.6	13254.2	13272.0
10°	13026.4	13114.0	13079.1	13145.4	13164.1
12.5°	12871.7	12954.1	12931.2	13008.5	13021.3
15°	12664.4	12752.8	12733.2	12794.4	12795.3
17.5°	12434.9	12518.1	12503.7	12551.4	12549.6
20°	12180.9	12270.0	12239.5	12291.3	12275.1
22.5°	11880.0	11975.2	11936.8	11980.2	11939.5
25°	11530.7	11623.4	11596.2	11621.6	11579.1
27.5°	11192.4	11277.4	11221.3	11251.9	11206.8
30°	10815.1	10887.3	10844.1	10854.2	10799.8
32.5°	10391.0	10476.8	10424.1	10422.5	10364.6
35°	9976.3	10063.8	10001.9	10000.1	9938.1
37.5°	9517.4	9598.9	9525.9	9530.1	9457.9
40°	9049.1	9119.7	9049.1	9045.7	8979.5
42.5°	8540.9	8634.4	8569.9	8577.4	8489.1
45°	8060.8	8146.6	8082.9	8049.7	8000.4
47.5°	7582.4	7619.7	7567.0	7558.5	7488.9
50°	7075.8	7103.8	7063.8	7053.7	6975.6
52.5°	6552.3	6600.8	6549.7	6536.1	6484.4
55°	6040.7	6082.3	6041.5	6031.3	5987.1
57.5°	5525.7	5580.1	5538.5	5528.2	5492.6
60°	5010.8	5026.8	5016.7	5031.9	4997.2
62.5°	4499.1	4536.4	4548.4	4544.1	4516.9
65°	3991.7	4030.8	4031.6	4052.1	4041.8
67.5°	3472.5	3523.4	3538.0	3559.1	3568.4
70°	2983.7	3022.9	3065.4	3078.1	3068.7
72.5°	2491.7	2554.6	2602.3	2613.2	2653.2
75°	1995.4	2054.9	2124.7	2139.9	2157.7
77.5°	1534.9	1613.8	1676.7	1697.2	1719.3
80°	1098.0	1185.5	1248.4	1276.4	1319.0
82.5°	720.7	809.9	873.6	901.7	953.6
85°	382.4	462.4	526.1	572.8	594.9
87.5°	113.0	181.0	217.5	231.1	250.8
90°	0.0	8.5	10.2	22.9	21.3
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)