

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: P731039

Luminaire Tested: **HBLED-LD5-36SE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731039
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-L835
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31627.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

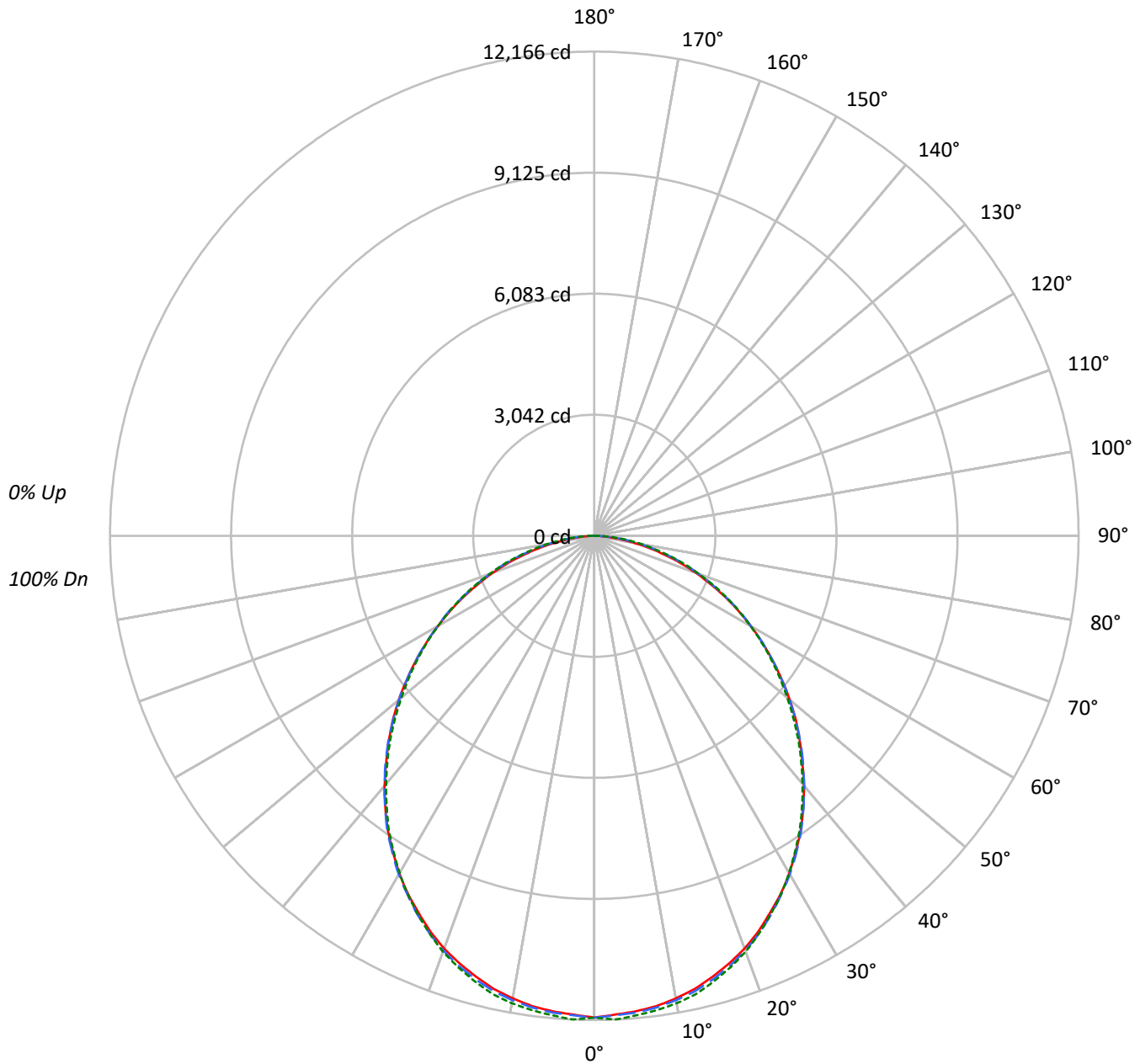
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19549	19549	19549
5°	19438	19492	19604
10°	19349	19428	19554
15°	19179	19284	19378
20°	18962	19053	19109
25°	18611	18717	18689
30°	18268	18317	18242
35°	17816	17861	17748
40°	17280	17280	17147
45°	16676	16722	16551
50°	16103	16076	15875
55°	15406	15408	15269
60°	14660	14677	14620
65°	13817	13955	13990
70°	12762	13111	13125
75°	11278	12009	12195
80°	9250	10517	11111
85°	6419	8829	9985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.1	3.6
10°-20°	3257.5	10.3
20°-30°	4840.9	15.3
30°-40°	5660.3	17.9
40°-50°	5643.4	17.8
50°-60°	4896.4	15.5
60°-70°	3616.6	11.4
70°-80°	2024.9	6.4
80°-90°	540.3	1.7
90°-100°	1.6	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°	9243.5	29.2
0°-40°	14903.8	47.1
0°-60°	25443.6	80.4
0°-90°	31625.4	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	31627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12108	12108	12108	12108	12108	
5°	11993	12068	12027	12080	12095	###
15°	11474	11554	11536	11592	11593	3236
25°	10447	10531	10506	10529	10491	4816
35°	9039	9118	9062	9060	9004	5646
45°	7303	7381	7323	7293	7248	5638
55°	5473	5511	5474	5464	5424	4894
65°	3616	3652	3653	3671	3662	3577
75°	1808	1862	1925	1939	1955	1925
85°	346	419	477	519	539	421
90°	0	8	9	21	19	14
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°	12107.7	12107.7	12107.7	12107.7	12107.7
2.5°	12041.5	12113.2	12063.0	12110.8	12166.3
5°	11993.0	12068.5	12026.8	12080.0	12095.4
7.5°	11922.2	11995.4	11955.3	12008.4	12024.6
10°	11802.0	11881.4	11849.8	11909.9	11926.8
12.5°	11661.9	11736.6	11715.8	11785.8	11797.4
15°	11474.1	11554.2	11536.4	11591.9	11592.6
17.5°	11266.2	11341.5	11328.5	11371.7	11370.0
20°	11036.0	11116.7	11089.1	11136.0	11121.3
22.5°	10763.4	10849.6	10814.9	10854.2	10817.3
25°	10446.9	10530.9	10506.2	10529.2	10490.8
27.5°	10140.5	10217.5	10166.6	10194.3	10153.5
30°	9798.6	9864.0	9824.8	9834.0	9784.8
32.5°	9414.4	9492.1	9444.3	9442.9	9390.5
35°	9038.6	9117.9	9061.8	9060.2	9004.1
37.5°	8622.8	8696.7	8630.6	8634.4	8569.0
40°	8198.6	8262.5	8198.6	8195.5	8135.5
42.5°	7738.1	7822.8	7764.4	7771.2	7691.2
45°	7303.2	7380.9	7323.2	7293.1	7248.4
47.5°	6869.7	6903.6	6855.8	6848.1	6785.0
50°	6410.7	6436.1	6399.9	6390.7	6319.9
52.5°	5936.5	5980.4	5934.1	5921.8	5874.9
55°	5472.9	5510.6	5473.6	5464.4	5424.4
57.5°	5006.3	5055.6	5017.9	5008.6	4976.4
60°	4539.8	4554.3	4545.1	4558.9	4527.5
62.5°	4076.2	4110.0	4120.9	4117.0	4092.4
65°	3616.5	3652.0	3652.7	3671.2	3661.9
67.5°	3146.1	3192.2	3205.4	3224.6	3233.0
70°	2703.3	2738.7	2777.3	2788.8	2780.3
72.5°	2257.5	2314.5	2357.7	2367.6	2403.8
75°	1807.9	1861.7	1925.0	1938.8	1954.9
77.5°	1390.6	1462.1	1519.1	1537.7	1557.7
80°	994.8	1074.1	1131.1	1156.4	1195.0
82.5°	652.9	733.8	791.5	816.9	863.9
85°	346.5	418.9	476.6	518.9	539.0
87.5°	102.4	164.0	197.1	209.4	227.2
90°	0.0	7.7	9.2	20.8	19.3
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)