

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: P731036

Luminaire Tested: **HBLED-LD5-36SE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731036
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-L735
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33085.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

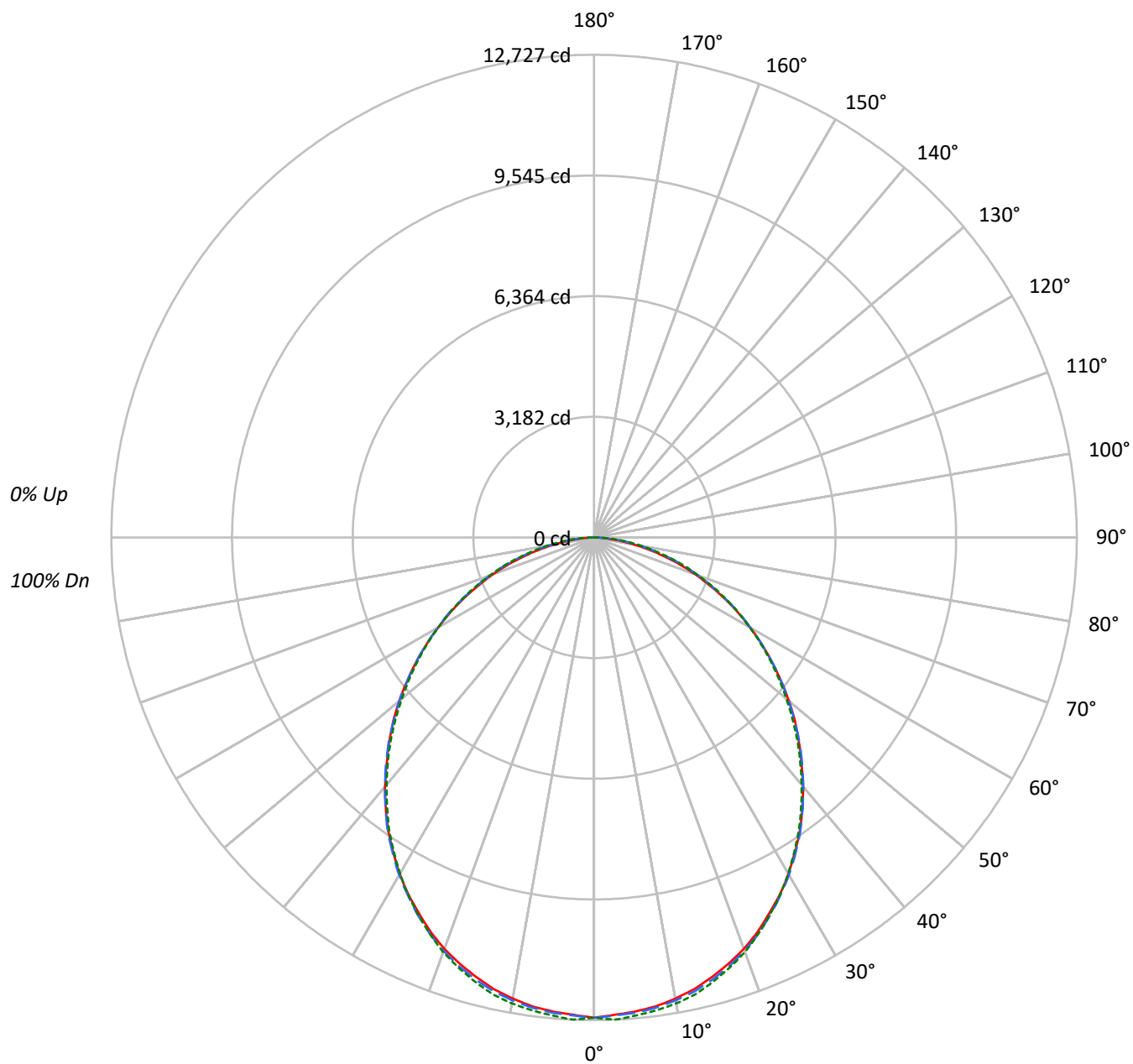
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20450	20450	20450
5°	20334	20391	20507
10°	20241	20323	20455
15°	20064	20173	20271
20°	19836	19932	19990
25°	19469	19580	19551
30°	19110	19161	19083
35°	18637	18685	18565
40°	18077	18077	17938
45°	17444	17492	17314
50°	16845	16817	16607
55°	16116	16118	15973
60°	15336	15354	15294
65°	14453	14598	14635
70°	13350	13716	13730
75°	11798	12562	12758
80°	9676	11001	11623
85°	6715	9237	10445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1197.9	3.6
10°-20°	3407.7	10.3
20°-30°	5064.1	15.3
30°-40°	5921.2	17.9
40°-50°	5903.6	17.8
50°-60°	5122.1	15.5
60°-70°	3783.3	11.4
70°-80°	2118.2	6.4
80°-90°	565.2	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°	9669.6	29.2
0°-40°	15590.8	47.1
0°-60°	26616.6	80.4
0°-90°	33083.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	33085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12666	12666	12666	12666	12666	
5°	12546	12625	12581	12637	12653	###
15°	12003	12087	12068	12126	12127	3385
25°	10928	11016	10991	11015	10974	5038
35°	9455	9538	9480	9478	9419	5906
45°	7640	7721	7661	7629	7583	5898
55°	5725	5765	5726	5716	5674	5120
65°	3783	3820	3821	3840	3831	3742
75°	1891	1948	2014	2028	2045	2014
85°	362	438	499	543	564	440
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12665.9	12665.9	12665.9	12665.9	12665.9
2.5°	12596.6	12671.6	12619.1	12669.1	12727.2
5°	12545.9	12624.9	12581.3	12636.8	12653.0
7.5°	12471.8	12548.4	12506.4	12562.0	12578.9
10°	12346.1	12429.1	12396.1	12458.9	12476.6
12.5°	12199.5	12277.6	12255.9	12329.2	12341.3
15°	12003.0	12086.8	12068.2	12126.3	12127.0
17.5°	11785.5	11864.4	11850.7	11895.9	11894.2
20°	11544.8	11629.2	11600.3	11649.4	11634.0
22.5°	11259.6	11349.8	11313.5	11354.6	11315.9
25°	10928.5	11016.3	10990.6	11014.6	10974.4
27.5°	10607.9	10688.5	10635.2	10664.3	10621.6
30°	10250.3	10318.7	10277.7	10287.4	10235.8
32.5°	9848.4	9929.7	9879.7	9878.2	9823.4
35°	9455.3	9538.2	9479.5	9477.8	9419.1
37.5°	9020.3	9097.7	9028.4	9032.5	8964.0
40°	8576.5	8643.4	8576.5	8573.3	8510.6
42.5°	8094.8	8183.5	8122.3	8129.5	8045.8
45°	7639.8	7721.2	7660.8	7629.3	7582.6
47.5°	7186.4	7221.8	7171.8	7163.7	7097.8
50°	6706.3	6732.8	6694.9	6685.3	6611.3
52.5°	6210.1	6256.1	6207.7	6194.8	6145.7
55°	5725.2	5764.6	5726.0	5716.3	5674.4
57.5°	5237.1	5288.7	5249.2	5239.5	5205.8
60°	4749.1	4764.3	4754.7	4769.1	4736.2
62.5°	4264.1	4299.5	4310.9	4306.8	4281.0
65°	3783.2	3820.3	3821.1	3840.5	3830.7
67.5°	3291.1	3339.4	3353.2	3373.2	3382.1
70°	2827.9	2865.0	2905.4	2917.3	2908.5
72.5°	2361.6	2421.2	2466.4	2476.8	2514.6
75°	1891.2	1947.6	2013.7	2028.1	2045.1
77.5°	1454.7	1529.5	1589.1	1608.5	1629.5
80°	1040.7	1123.6	1183.2	1209.7	1250.1
82.5°	683.0	767.6	828.0	854.6	903.8
85°	362.5	438.2	498.6	542.9	563.8
87.5°	107.1	171.5	206.2	219.0	237.7
90°	0.0	8.1	9.6	21.7	20.2
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)