

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: P731034

Luminaire Tested: **HBLED-LD5-36SE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CLI-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34040.0 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

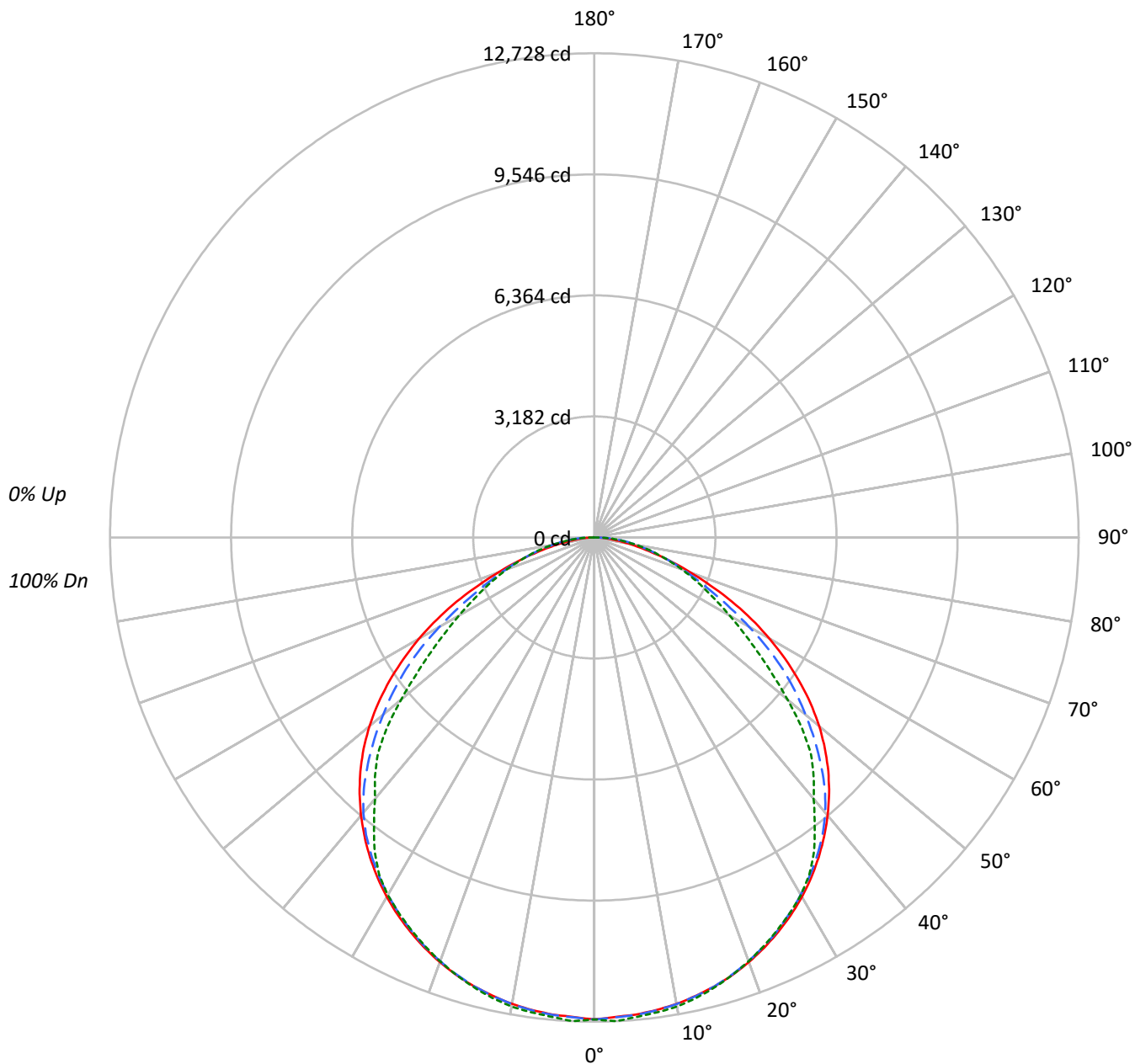
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20456	20456	20456
5°	20402	20416	20508
10°	20413	20423	20530
15°	20416	20413	20461
20°	20411	20364	20369
25°	20379	20304	20279
30°	20346	20224	20236
35°	20251	20125	19840
40°	20107	19902	18898
45°	19852	19216	18375
50°	19374	18193	16642
55°	18492	17015	14716
60°	17161	15182	13271
65°	15253	13144	12203
70°	12659	11747	11503
75°	10238	10750	10884
80°	8132	10282	10239
85°	6367	11047	10537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1201.5	3.5
10°-20°	3456.1	10.2
20°-30°	5270.0	15.5
30°-40°	6375.9	18.7
40°-50°	6458.2	19.0
50°-60°	5337.9	15.7
60°-70°	3525.6	10.4
70°-80°	1838.4	5.4
80°-90°	576.3	1.7
90°-100°	0.0	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°	9927.7	29.2
0°-40°	16303.6	47.9
0°-60°	28099.7	82.5
0°-90°	34040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12670	12670	12670	12670	12670	
5°	12588	12664	12597	12652	12653	###
15°	12214	12276	12212	12250	12241	3449
25°	11440	11485	11397	11426	11383	5275
35°	10274	10288	10210	10197	10066	6426
45°	8694	8671	8416	8154	8048	6694
55°	6569	6472	6044	5457	5228	5855
65°	3993	3877	3440	3217	3194	3943
75°	1641	1670	1723	1746	1745	1788
85°	344	443	596	592	569	417
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12669.8	12669.8	12669.8	12669.8	12669.8
2.5°	12616.7	12691.2	12628.8	12683.5	12727.6
5°	12587.7	12663.9	12596.9	12651.6	12653.2
7.5°	12531.5	12607.5	12539.0	12593.8	12592.3
10°	12450.8	12522.4	12456.9	12522.4	12522.4
12.5°	12341.4	12411.3	12347.5	12408.2	12399.1
15°	12213.7	12275.9	12212.1	12250.1	12241.0
17.5°	12063.0	12119.3	12047.8	12079.7	12061.5
20°	11879.0	11930.7	11851.7	11892.7	11854.6
22.5°	11672.0	11720.7	11640.1	11670.7	11627.9
25°	11439.5	11485.1	11396.9	11425.7	11383.1
27.5°	11188.4	11229.5	11130.6	11165.7	11132.1
30°	10913.1	10932.9	10847.8	10893.4	10853.9
32.5°	10605.9	10618.1	10543.5	10584.5	10517.7
35°	10274.3	10288.0	10210.5	10196.7	10065.9
37.5°	9919.9	9926.0	9853.1	9729.7	9513.8
40°	9539.7	9536.7	9442.4	9157.9	8966.2
42.5°	9133.5	9132.1	8966.2	8642.2	8532.8
45°	8694.0	8671.2	8415.6	8154.0	8047.5
47.5°	8222.6	8198.1	7840.7	7632.4	7390.5
50°	7713.0	7670.4	7242.9	6958.5	6625.5
52.5°	7163.9	7098.4	6663.5	6204.1	5889.3
55°	6569.2	6471.8	6044.5	5457.4	5227.7
57.5°	5950.2	5805.6	5390.4	4818.6	4631.5
60°	5314.4	5153.1	4701.4	4231.5	4109.7
62.5°	4660.3	4500.7	4039.8	3685.4	3618.4
65°	3992.6	3876.9	3440.5	3216.9	3194.2
67.5°	3308.2	3267.1	2934.0	2820.0	2810.8
70°	2681.5	2673.9	2488.3	2430.5	2436.6
72.5°	2143.1	2134.0	2106.6	2077.7	2079.2
75°	1641.2	1670.0	1723.3	1746.0	1744.7
77.5°	1224.4	1283.8	1396.2	1441.9	1434.2
80°	874.6	962.8	1105.8	1148.4	1101.2
82.5°	582.5	675.3	844.1	850.2	812.2
85°	343.7	442.6	596.3	591.7	568.8
87.5°	170.3	266.2	357.4	342.2	327.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)