

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: P730997

Luminaire Tested: **HBLED-LD5-36SE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLI-UNV-L835
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31734.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

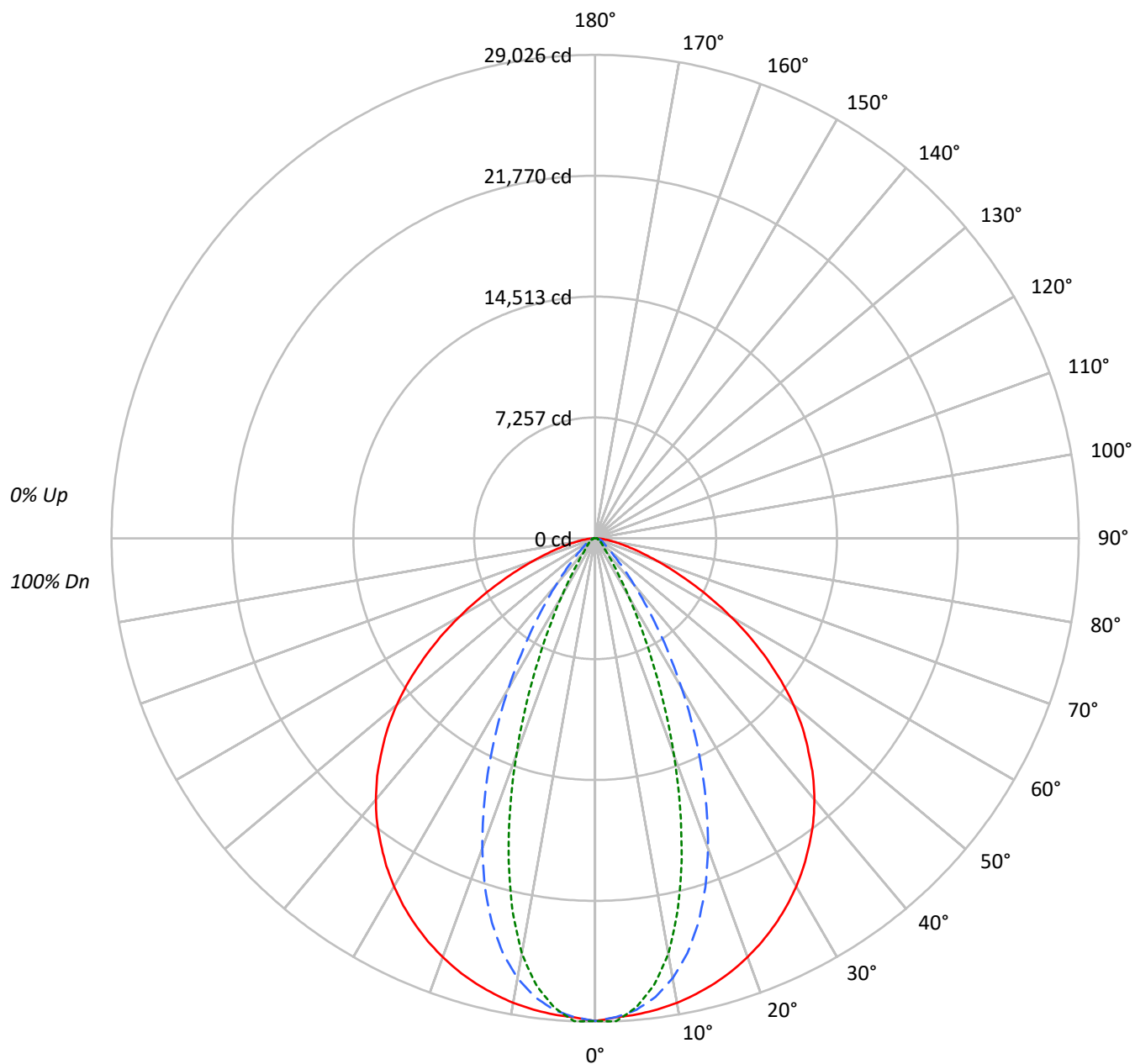
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46802	46802	46802
5°	46520	46057	45815
10°	46442	43972	41494
15°	46255	39970	33511
20°	45978	34011	23751
25°	45566	26818	14350
30°	45013	19355	7375
35°	44200	12654	3683
40°	43152	7601	2149
45°	41359	4539	1607
50°	39009	2968	1350
55°	35306	2252	1178
60°	30340	1918	1075
65°	24405	1750	1015
70°	18385	1874	1009
75°	13524	1781	1038
80°	9894	1774	1136
85°	7410	2151	1469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2669.5	8.4
10°-20°	6641.2	20.9
20°-30°	7356.1	23.2
30°-40°	5893.5	18.6
40°-50°	4207.2	13.3
50°-60°	2702.4	8.5
60°-70°	1464.5	4.6
70°-80°	626.0	2.0
80°-90°	173.6	0.5
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°	16666.8	52.5
0°-40°	22560.4	71.1
0°-60°	29470.0	92.9
0°-90°	31734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28987	28987	28987	28987	28987	
5°	28703	28810	28417	28327	28268	###
15°	27672	26806	23912	21132	20048	7808
25°	25578	22553	15054	9808	8055	11783
35°	22425	16220	6420	2589	1869	14021
45°	18113	9364	1988	846	704	13961
55°	12542	4186	800	492	418	11177
65°	6388	1719	458	316	266	6397
75°	2168	629	286	198	166	2409
85°	400	166	116	96	79	489
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28986.7	28986.7	28986.7	28986.7	28986.7
2.5°	28795.9	28976.1	28782.1	28902.7	29026.3
5°	28702.7	28809.7	28417.2	28327.1	28267.7
7.5°	28540.8	28510.3	27773.0	27295.1	27064.5
10°	28327.1	28079.8	26820.2	25769.9	25308.8
12.5°	28021.8	27511.9	25530.1	23685.8	22904.2
15°	27672.2	26806.5	23911.8	21131.7	20047.7
17.5°	27253.8	25982.0	21977.4	18392.7	16962.1
20°	26759.2	24986.7	19794.2	15482.7	13823.1
22.5°	26206.6	23838.6	17456.7	12581.8	10801.8
25°	25577.5	22553.0	15053.7	9807.8	8055.1
27.5°	24898.2	21125.6	12664.4	7328.4	5729.8
30°	24143.8	19580.5	10381.8	5284.1	3955.8
32.5°	23320.9	17937.7	8261.3	3716.1	2705.4
35°	22424.8	16220.1	6419.9	2589.3	1868.7
37.5°	21507.2	14467.4	4848.9	1830.5	1340.5
40°	20473.6	12720.7	3606.2	1340.5	1019.8
42.5°	19363.7	11007.8	2668.8	1032.0	826.0
45°	18113.3	9363.5	1987.9	845.9	703.9
47.5°	16901.1	7830.7	1509.9	720.6	612.2
50°	15530.1	6447.5	1181.7	629.1	537.4
52.5°	14075.1	5230.6	958.8	554.2	473.3
55°	12542.2	4186.3	799.9	491.6	418.4
57.5°	10989.5	3316.0	684.0	438.1	372.6
60°	9395.6	2651.9	593.9	392.3	332.8
62.5°	7839.9	2120.7	519.0	352.7	297.7
65°	6387.9	1719.0	458.0	316.1	265.6
67.5°	5045.8	1358.8	427.5	283.9	239.8
70°	3894.6	1058.0	397.0	253.4	213.8
72.5°	2951.1	812.3	351.2	226.0	189.3
75°	2167.9	629.1	285.5	198.5	166.4
77.5°	1551.2	484.0	232.1	172.5	143.6
80°	1064.1	360.4	190.8	148.1	122.2
82.5°	691.7	255.0	154.2	122.2	100.7
85°	400.0	166.4	116.1	96.2	79.3
87.5°	172.5	91.5	79.3	71.8	61.0
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)