

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: P731000

Luminaire Tested: **HBLED-LD5-36SE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-UNV-L735
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35879.0 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

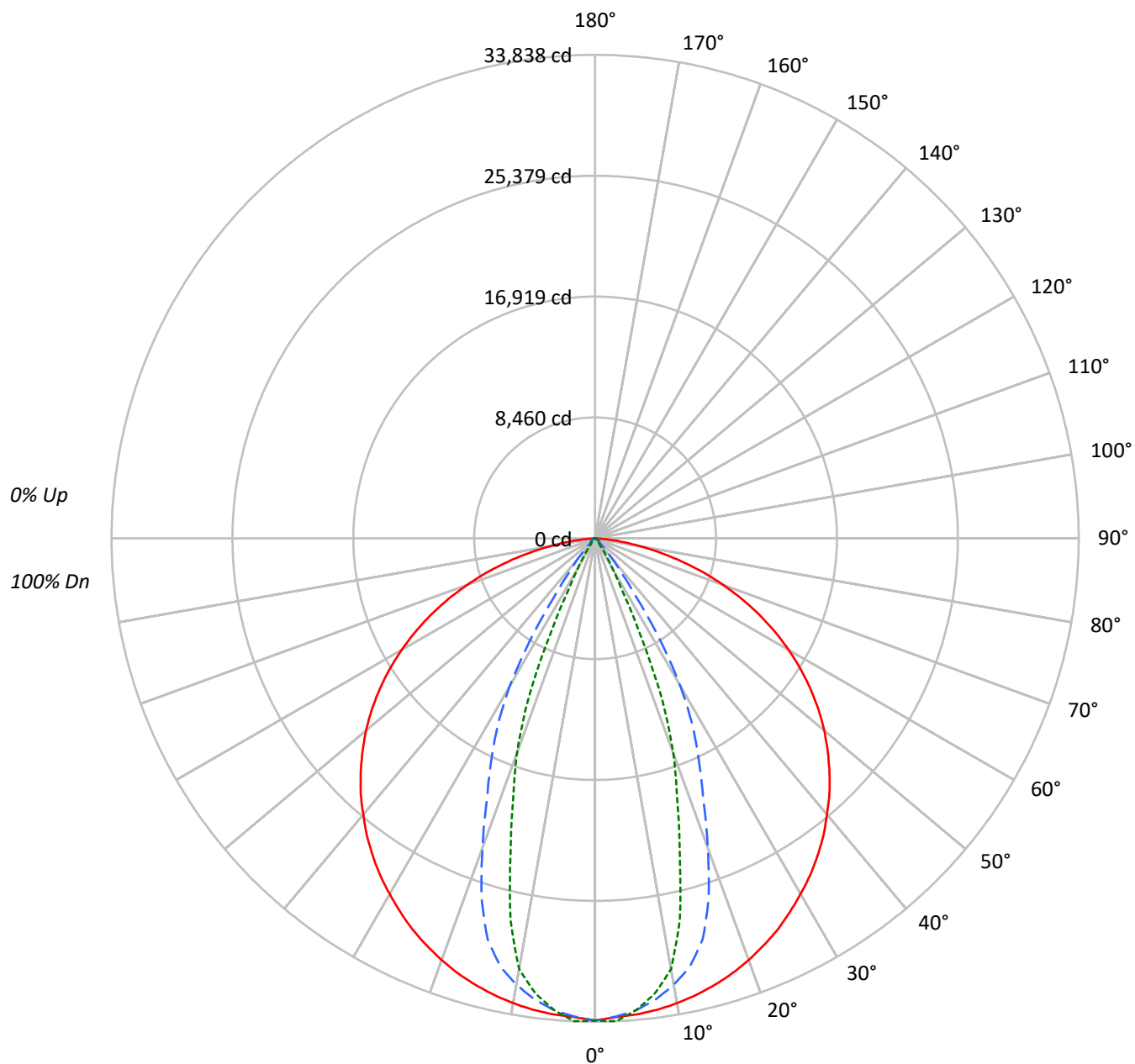
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54503	54503	54503
5°	54211	53733	53709
10°	54178	52011	50186
15°	54101	48590	38194
20°	53975	39611	27493
25°	53838	30628	13543
30°	53600	22260	4392
35°	53473	9875	1130
40°	53193	4011	761
45°	52955	1126	810
50°	52543	799	899
55°	51786	949	385
60°	50507	1058	233
65°	48430	675	276
70°	44992	599	341
75°	39359	451	470
80°	29429	552	672
85°	14578	713	891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3132.7	8.7
10°-20°	7833.2	21.8
20°-30°	8484.6	23.6
30°-40°	6283.2	17.5
40°-50°	4525.5	12.6
50°-60°	2802.1	7.8
60°-70°	1723.3	4.8
70°-80°	908.5	2.5
80°-90°	186.0	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°	19450.4	54.2
0°-40°	25733.6	71.7
0°-60°	33061.3	92.1
0°-90°	35879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33757	33757	33757	33757	33757	
5°	33448	33572	33153	33177	33138	###
15°	32366	31614	29069	24721	22850	9137
25°	30220	27682	17192	10815	7602	13925
35°	27129	19126	5010	1179	573	16973
45°	23192	10775	493	356	355	17886
55°	18397	2219	337	305	137	16423
65°	12676	234	177	112	72	12507
75°	6309	55	72	95	75	6664
85°	787	21	38	58	48	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33756.6	33756.6	33756.6	33756.6	33756.6
2.5°	33539.8	33753.5	33501.3	33689.2	33838.5
5°	33448.2	33571.9	33152.8	33176.9	33138.4
7.5°	33287.6	33258.8	32553.8	32245.5	32110.7
10°	33045.3	32854.1	31723.7	31079.7	30610.8
12.5°	32732.1	32304.9	30687.9	28640.4	27368.6
15°	32365.9	31614.4	29069.1	24720.6	22849.6
17.5°	31929.1	30864.5	26422.6	20718.7	19048.7
20°	31413.6	30027.8	23053.5	17627.5	16000.8
22.5°	30838.7	29009.7	19780.9	14650.2	12329.7
25°	30220.5	27681.7	17192.2	10815.4	7602.1
27.5°	29505.9	25974.7	14764.2	6370.5	3879.8
30°	28749.6	23919.1	11939.5	3426.8	2355.8
32.5°	27986.8	21589.0	8448.4	2140.6	1336.0
35°	27129.3	19125.7	5010.2	1178.7	573.4
37.5°	26234.7	16867.9	2961.2	536.4	367.8
40°	25237.6	14804.4	1902.9	356.4	361.2
42.5°	24274.1	12880.6	1071.2	351.6	358.1
45°	23191.6	10775.2	493.0	356.4	354.9
47.5°	22072.4	8592.8	319.5	359.7	359.7
50°	20917.9	6144.1	317.9	367.8	358.1
52.5°	19699.0	3833.2	330.8	366.2	293.9
55°	18396.7	2219.3	337.2	305.1	136.6
57.5°	17047.7	1308.7	340.4	175.0	77.1
60°	15640.9	724.2	327.6	130.0	72.3
62.5°	14190.9	345.3	258.5	122.1	70.6
65°	12676.5	234.5	176.6	112.3	72.3
67.5°	11104.5	181.4	139.7	106.0	73.9
70°	9530.7	134.8	126.9	106.0	72.3
72.5°	7931.3	91.6	106.0	107.5	72.3
75°	6309.3	54.6	72.3	94.8	75.4
77.5°	4701.9	33.7	56.2	97.9	91.6
80°	3165.1	28.9	59.4	91.6	72.3
82.5°	1858.0	25.8	57.9	70.6	57.9
85°	786.9	20.9	38.5	57.9	48.1
87.5°	147.7	17.7	30.6	46.6	41.7
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)