

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: P731047

Luminaire Tested: **HBLED-LD5-36SE-W-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37360.0 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

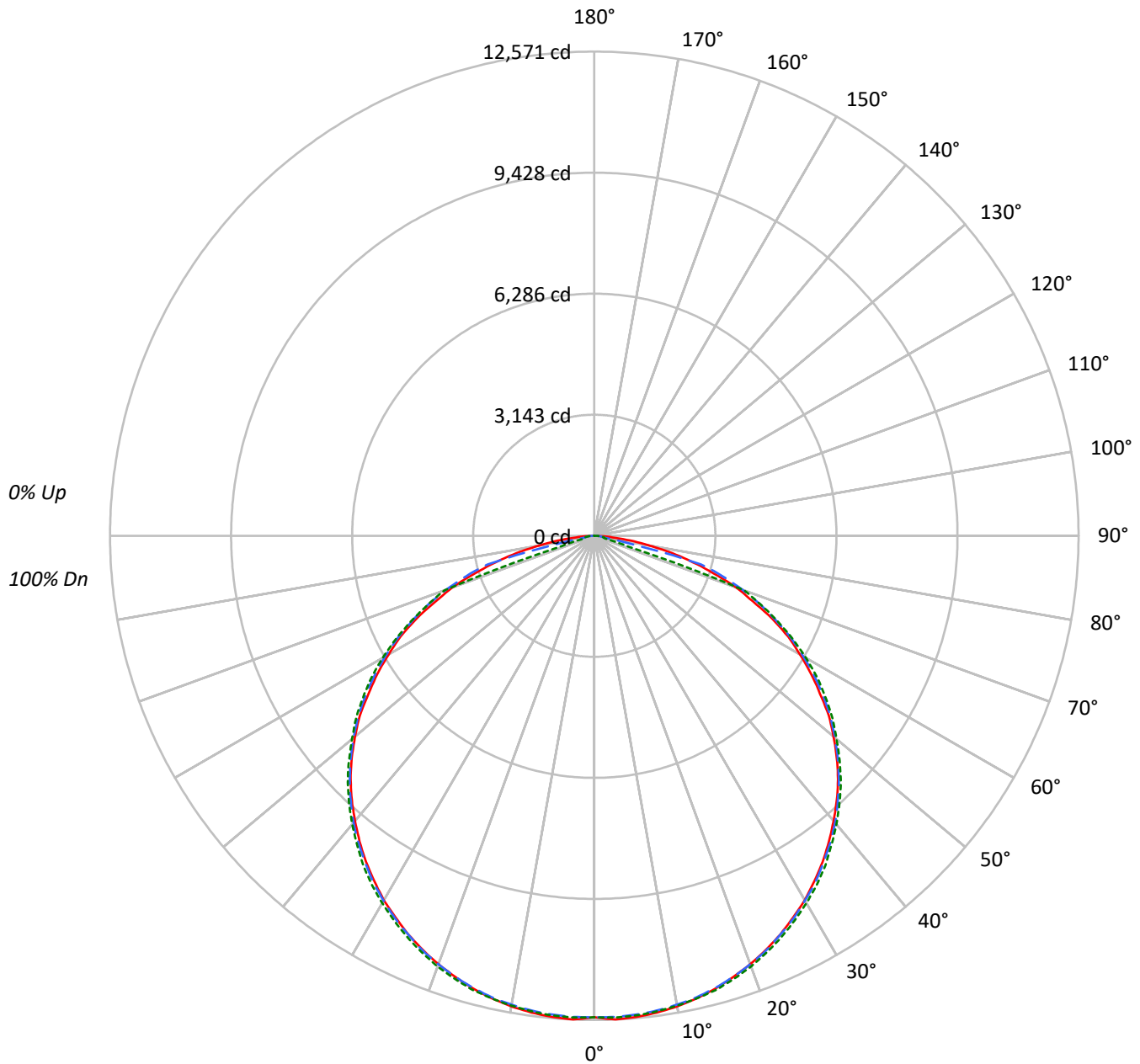
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20185	20185	20185
5°	20330	20226	20262
10°	20341	20268	20309
15°	20339	20311	20404
20°	20337	20342	20447
25°	20347	20357	20481
30°	20369	20395	20530
35°	20365	20431	20601
40°	20368	20498	20609
45°	20425	20502	20667
50°	20364	20483	20616
55°	20140	20422	20641
60°	19911	20235	20487
65°	19471	19875	20024
70°	18485	19274	19510
75°	16487	17877	2154
80°	13258	2227	2356
85°	8822	2890	2940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1187.4	3.2
10°-20°	3431.0	9.2
20°-30°	5271.5	14.1
30°-40°	6489.4	17.4
40°-50°	6918.3	18.5
50°-60°	6467.2	17.3
60°-70°	5119.6	13.7
70°-80°	2178.2	5.8
80°-90°	297.4	0.8
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°	9889.8	26.5
0°-40°	16379.2	43.8
0°-60°	29764.8	79.7
0°-90°	37360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12502	12502	12502	12502	12502	
5°	12544	12488	12479	12429	12502	###
15°	12168	12145	12151	12117	12206	3436
25°	11421	11407	11427	11421	11496	5266
35°	10332	10316	10366	10402	10452	6465
45°	8945	8895	8979	9015	9051	6893
55°	7155	7177	7255	7280	7333	6407
65°	5096	5141	5202	5241	5241	5014
75°	2643	2757	2866	468	345	2796
85°	476	142	156	162	159	621
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12501.7	12501.7	12501.7	12501.7	12501.7
2.5°	12571.3	12512.9	12501.7	12451.6	12518.4
5°	12543.5	12487.8	12479.4	12429.3	12501.7
7.5°	12485.0	12440.5	12434.9	12382.0	12454.4
10°	12407.0	12365.3	12362.5	12315.1	12387.5
12.5°	12301.2	12265.0	12276.1	12228.8	12301.2
15°	12167.5	12145.2	12150.8	12117.4	12206.5
17.5°	12006.0	11994.9	12006.0	11980.9	12061.7
20°	11836.1	11822.2	11838.9	11825.0	11900.2
22.5°	11638.4	11621.7	11655.1	11635.6	11705.2
25°	11421.2	11407.2	11426.7	11421.2	11496.4
27.5°	11173.3	11159.4	11201.1	11203.9	11262.4
30°	10925.4	10905.9	10939.4	10953.3	11011.8
32.5°	10630.2	10624.7	10674.8	10685.9	10747.2
35°	10332.2	10315.5	10365.7	10401.9	10452.0
37.5°	10006.4	10003.6	10056.5	10087.2	10112.2
40°	9663.8	9649.9	9725.1	9755.7	9778.0
42.5°	9315.7	9285.1	9357.5	9396.5	9421.5
45°	8945.3	8895.2	8978.7	9014.9	9051.1
47.5°	8538.7	8494.2	8574.9	8613.9	8639.0
50°	8107.0	8065.3	8154.4	8187.8	8207.3
52.5°	7672.6	7630.8	7725.5	7753.4	7800.7
55°	7154.6	7176.9	7254.8	7279.9	7332.8
57.5°	6675.6	6695.1	6770.3	6800.9	6862.2
60°	6165.9	6196.6	6266.2	6296.8	6344.2
62.5°	5673.0	5675.8	5759.3	5773.2	5809.4
65°	5096.5	5141.1	5202.3	5241.3	5241.3
67.5°	4453.2	4561.8	4667.6	4659.3	4681.5
70°	3915.7	3957.4	4082.8	4102.3	4132.9
72.5°	3241.7	3350.3	3489.6	2606.7	885.6
75°	2642.9	2757.1	2865.7	467.9	345.3
77.5°	2052.5	2141.6	952.5	267.4	261.8
80°	1425.9	1567.9	239.5	245.1	253.4
82.5°	938.5	765.9	197.7	217.2	220.0
85°	476.2	142.0	156.0	161.5	158.7
87.5°	156.0	86.3	89.1	91.9	94.7
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)