

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: P731004

Luminaire Tested: **HBLED-LD5-36SE-N-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731004
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-L840
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35285.9 lumens
Efficiency: N/A
Efficacy: 155.1 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

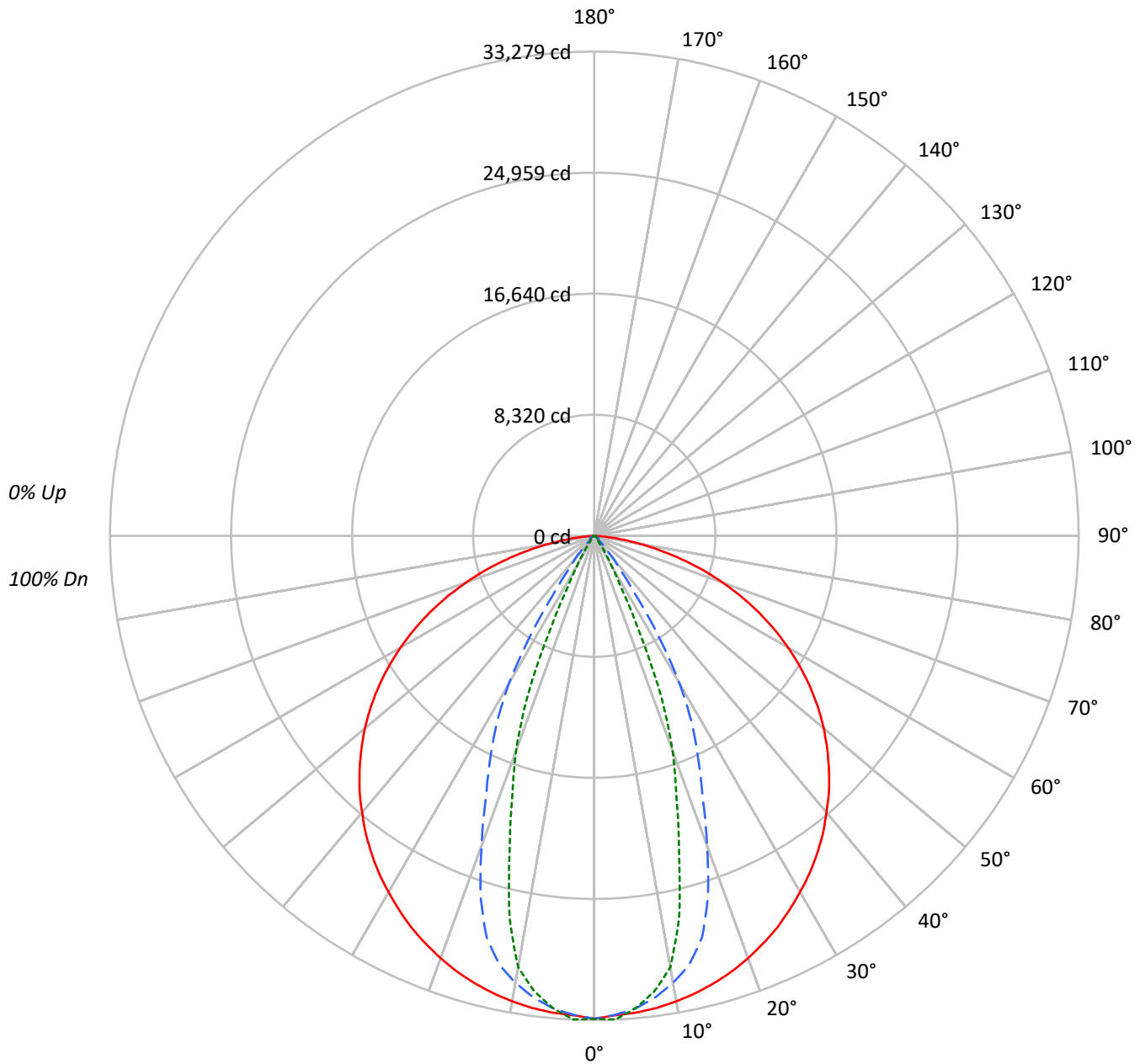
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	53602	53602	53602
5°	53315	52845	52822
10°	53282	51151	49357
15°	53207	47787	37563
20°	53083	38956	27038
25°	52948	30122	13319
30°	52714	21892	4320
35°	52589	9712	1111
40°	52314	3944	749
45°	52080	1107	797
50°	51674	785	885
55°	50930	933	378
60°	49672	1040	230
65°	47629	664	272
70°	44248	589	336
75°	38709	444	463
80°	28942	543	661
85°	14337	700	876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3080.9	8.7
10°-20°	7703.8	21.8
20°-30°	8344.3	23.6
30°-40°	6179.3	17.5
40°-50°	4450.7	12.6
50°-60°	2755.8	7.8
60°-70°	1694.8	4.8
70°-80°	893.4	2.5
80°-90°	182.9	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°	19129.0	54.2
0°-40°	25308.3	71.7
0°-60°	32514.9	92.1
0°-90°	35285.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35285.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33199	33199	33199	33199	33199	
5°	32895	33017	32605	32628	32591	###
15°	31831	31092	28589	24312	22472	8986
25°	29721	27224	16908	10637	7476	13695
35°	26681	18810	4927	1159	564	16692
45°	22808	10597	485	350	349	17590
55°	18093	2183	332	300	134	16151
65°	12467	231	174	110	71	12301
75°	6205	54	71	93	74	6554
85°	774	21	38	57	47	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33198.7	33198.7	33198.7	33198.7	33198.7
2.5°	32985.5	33195.6	32947.6	33132.4	33279.2
5°	32895.4	33017.1	32604.9	32628.5	32590.7
7.5°	32737.5	32709.1	32015.8	31712.6	31579.9
10°	32499.1	32311.1	31199.3	30566.0	30104.8
12.5°	32191.1	31771.0	30180.7	28167.0	26916.2
15°	31831.0	31091.9	28588.7	24312.0	22472.0
17.5°	31401.4	30354.3	25985.9	20376.2	18733.9
20°	30894.4	29531.5	22672.5	17336.1	15736.3
22.5°	30329.0	28530.2	19454.0	14408.0	12125.9
25°	29721.0	27224.2	16908.1	10636.6	7476.4
27.5°	29018.3	25545.4	14520.2	6265.2	3815.7
30°	28274.5	23523.8	11742.1	3370.2	2316.9
32.5°	27524.2	21232.2	8308.7	2105.2	1314.0
35°	26680.9	18809.5	4927.4	1159.2	563.9
37.5°	25801.1	16589.1	2912.2	527.6	361.7
40°	24820.5	14559.7	1871.4	350.5	355.3
42.5°	23872.9	12667.7	1053.5	345.8	352.2
45°	22808.3	10597.1	484.8	350.5	349.0
47.5°	21707.6	8450.8	314.2	353.7	353.7
50°	20572.2	6042.5	312.7	361.7	352.2
52.5°	19373.4	3769.9	325.4	360.2	289.0
55°	18092.6	2182.6	331.6	300.0	134.3
57.5°	16766.0	1287.1	334.8	172.1	75.8
60°	15382.4	712.2	322.2	127.9	71.1
62.5°	13956.3	339.6	254.2	120.1	69.4
65°	12467.0	230.6	173.7	110.5	71.1
67.5°	10920.9	178.4	137.3	104.2	72.6
70°	9373.2	132.6	124.8	104.2	71.1
72.5°	7800.3	90.0	104.2	105.8	71.1
75°	6205.0	53.7	71.1	93.2	74.2
77.5°	4624.2	33.1	55.2	96.3	90.0
80°	3112.7	28.4	58.4	90.0	71.1
82.5°	1827.3	25.3	56.9	69.4	56.9
85°	773.9	20.6	37.8	56.9	47.3
87.5°	145.3	17.4	30.1	45.8	41.1
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)