

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: P731001

Luminaire Tested: **HBLED-LD5-36SE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731001
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-L740
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36967.0 lumens
Efficiency: N/A
Efficacy: 162.5 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

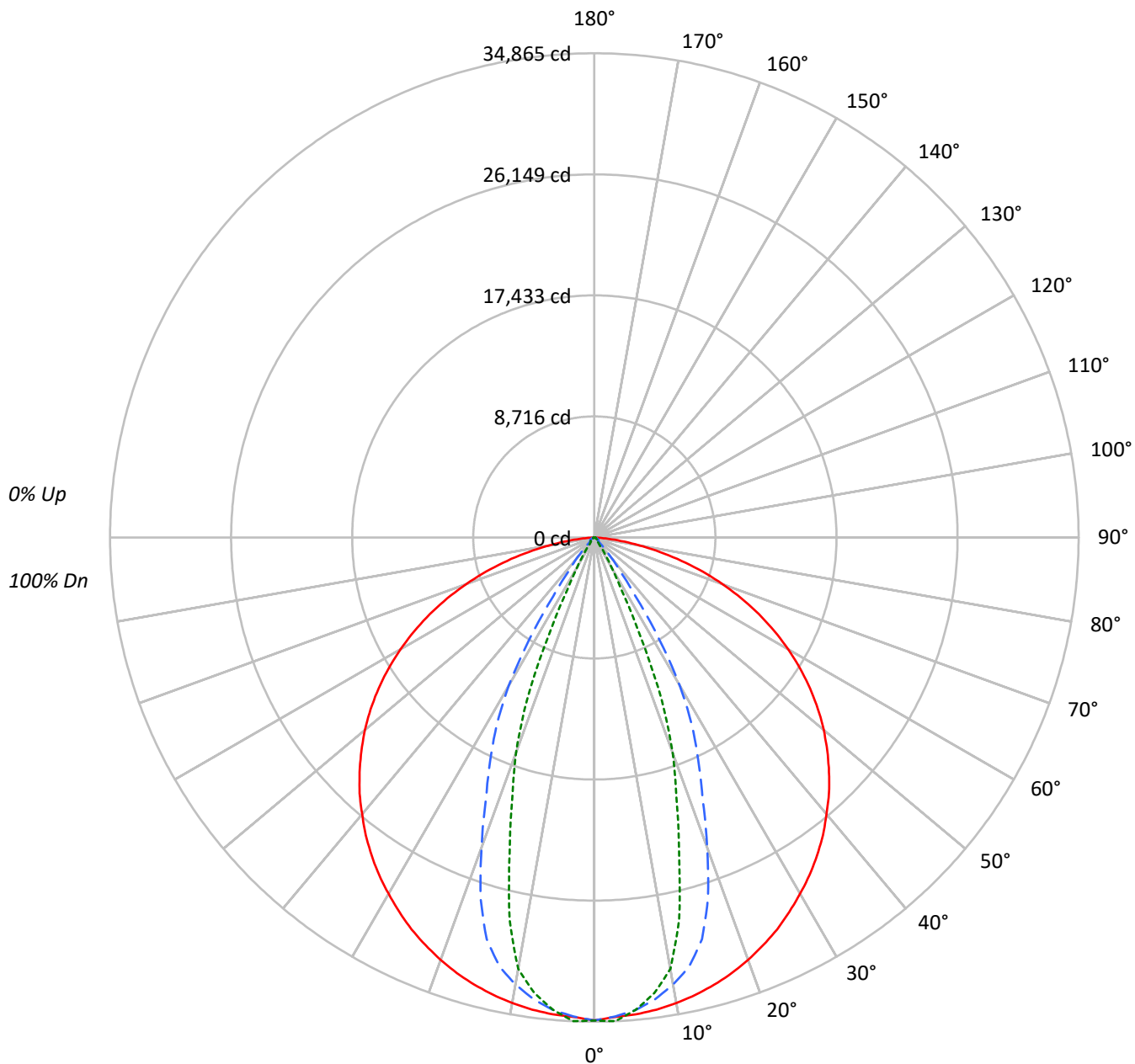
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	56156	56156	56156
5°	55855	55362	55338
10°	55820	53588	51708
15°	55742	50064	39352
20°	55612	40812	28326
25°	55470	31557	13954
30°	55225	22934	4525
35°	55095	10175	1164
40°	54806	4132	784
45°	54561	1160	835
50°	54136	823	927
55°	53356	978	396
60°	52039	1090	241
65°	49898	695	285
70°	46356	617	352
75°	40553	465	485
80°	30321	569	693
85°	15018	734	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3227.7	8.7
10°-20°	8070.8	21.8
20°-30°	8741.8	23.6
30°-40°	6473.7	17.5
40°-50°	4662.8	12.6
50°-60°	2887.1	7.8
60°-70°	1775.5	4.8
70°-80°	936.0	2.5
80°-90°	191.6	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°	20040.3	54.2
0°-40°	26514.0	71.7
0°-60°	34063.9	92.1
0°-90°	36967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34780	34780	34780	34780	34780	
5°	34462	34590	34158	34183	34143	###
15°	33347	32573	29951	25470	23542	9414
25°	31137	28521	17714	11143	7833	14347
35°	27952	19706	5162	1214	591	17487
45°	23895	11102	508	367	366	18428
55°	18954	2287	347	314	141	16921
65°	13061	242	182	116	74	12887
75°	6501	56	74	98	78	6866
85°	811	22	40	60	50	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34780.2	34780.2	34780.2	34780.2	34780.2
2.5°	34556.9	34777.0	34517.2	34710.8	34864.6
5°	34462.5	34590.0	34158.1	34182.9	34143.3
7.5°	34297.1	34267.3	33541.0	33223.3	33084.4
10°	34047.3	33850.4	32685.7	32022.2	31539.0
12.5°	33724.7	33284.6	31618.5	29508.9	28198.5
15°	33347.4	32573.1	29950.6	25470.2	23542.5
17.5°	32897.3	31800.4	27223.9	21346.9	19626.3
20°	32366.2	30938.3	23752.6	18162.0	16486.0
22.5°	31773.9	29889.4	20380.8	15094.4	12703.6
25°	31136.9	28521.1	17713.5	11143.3	7832.6
27.5°	30400.7	26762.3	15211.9	6563.6	3997.4
30°	29621.4	24644.4	12301.5	3530.7	2427.3
32.5°	28835.5	22243.7	8704.6	2205.5	1376.6
35°	27952.0	19705.6	5162.1	1214.4	590.7
37.5°	27030.3	17379.4	3051.0	552.7	378.9
40°	26002.9	15253.3	1960.6	367.2	372.2
42.5°	25010.2	13271.2	1103.6	362.3	369.0
45°	23894.9	11101.9	507.9	367.2	365.6
47.5°	22741.7	8853.4	329.2	370.6	370.6
50°	21552.2	6330.4	327.6	378.9	369.0
52.5°	20296.4	3949.5	340.9	377.3	302.8
55°	18954.5	2286.6	347.4	314.3	140.7
57.5°	17564.7	1348.4	350.8	180.3	79.5
60°	16115.2	746.2	337.5	134.0	74.5
62.5°	14621.2	355.7	266.4	125.8	72.7
65°	13060.9	241.6	181.9	115.8	74.5
67.5°	11441.2	186.9	143.9	109.2	76.1
70°	9819.7	138.9	130.8	109.2	74.5
72.5°	8171.9	94.3	109.2	110.8	74.5
75°	6500.6	56.3	74.5	97.7	77.7
77.5°	4844.5	34.7	57.9	100.9	94.3
80°	3261.0	29.7	61.2	94.3	74.5
82.5°	1914.4	26.5	59.6	72.7	59.6
85°	810.7	21.6	39.6	59.6	49.6
87.5°	152.2	18.2	31.5	48.0	43.0
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)