

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: P731017

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-AI-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32952.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

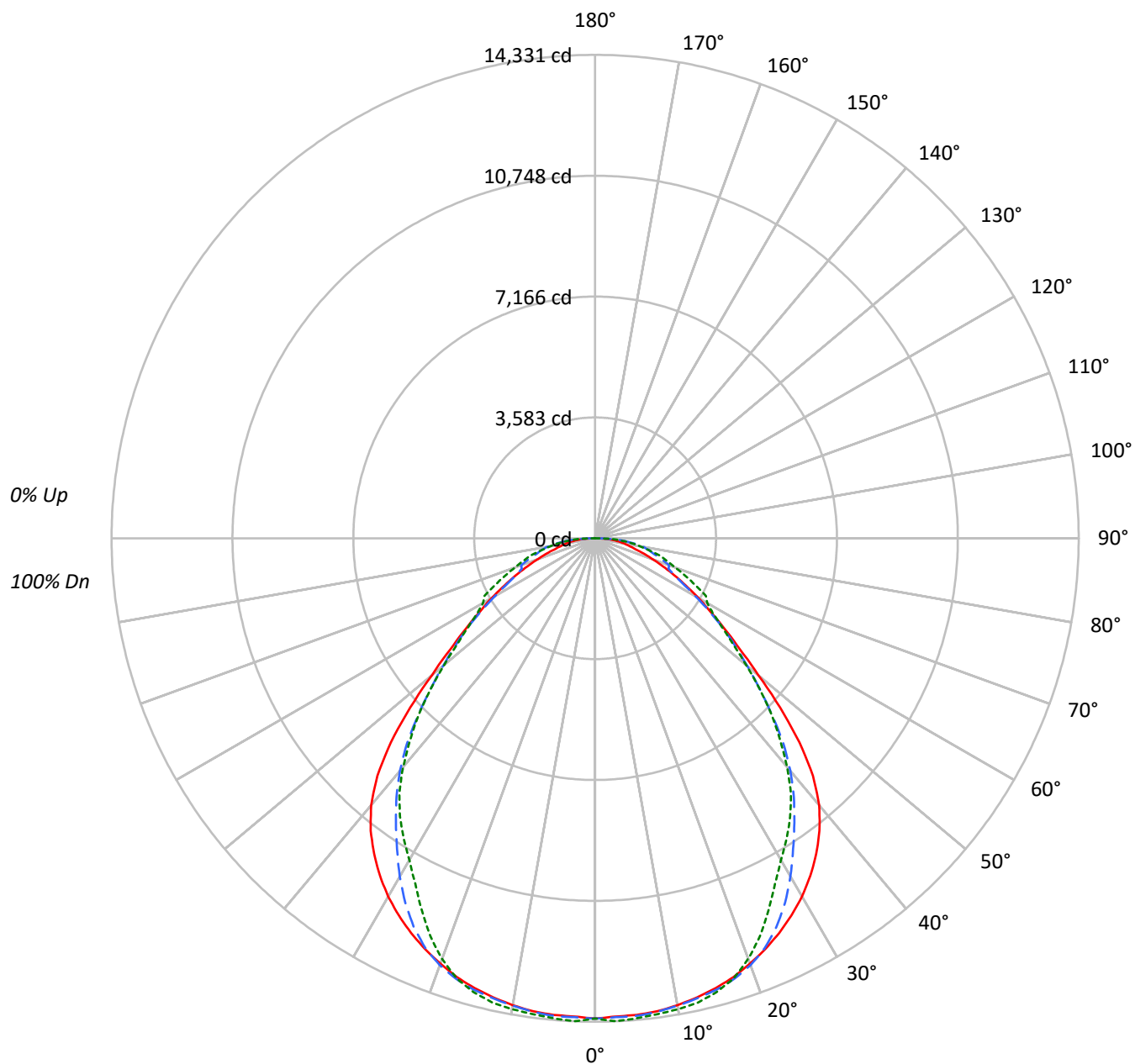
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22986	22986	22986
5°	22985	23034	23147
10°	23041	23071	23240
15°	23077	23163	23276
20°	23054	23140	22796
25°	22995	22651	21666
30°	22860	21582	20530
35°	22516	20285	19862
40°	21763	18967	18654
45°	19561	16936	16874
50°	15865	14752	14650
55°	13173	12929	12924
60°	11406	11073	12379
65°	9885	9823	12478
70°	8523	11019	11894
75°	7643	11294	12400
80°	7944	13295	12441
85°	9018	15322	14214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1355.5	4.1
10°-20°	3914.7	11.9
20°-30°	5814.2	17.6
30°-40°	6600.7	20.0
40°-50°	5900.8	17.9
50°-60°	4079.8	12.4
60°-70°	2692.1	8.2
70°-80°	1816.2	5.5
80°-90°	777.9	2.4
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°	11084.4	33.6
0°-40°	17685.1	53.7
0°-60°	27665.8	84.0
0°-90°	32952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14236	14236	14236	14236	14236	
5°	14181	14268	14212	14270	14281	###
15°	13806	13872	13858	13935	13925	3897
25°	12908	13030	12714	12336	12162	5948
35°	11423	11183	10292	10142	10077	7123
45°	8567	7841	7417	7474	7390	6515
55°	4680	4272	4593	4528	4591	4251
65°	2587	2297	2571	3006	3266	2582
75°	1225	1541	1810	1934	1988	1338
85°	487	677	827	832	767	508
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14236.3	14236.3	14236.3	14236.3	14236.3
2.5°	14188.0	14276.6	14210.5	14271.8	14331.3
5°	14181.4	14268.5	14212.1	14270.1	14281.4
7.5°	14141.1	14221.7	14155.6	14212.1	14225.0
10°	14054.0	14149.2	14071.8	14158.9	14175.0
12.5°	13941.3	14038.0	13970.2	14089.5	14096.0
15°	13805.8	13871.9	13857.5	13934.8	13925.1
17.5°	13634.9	13710.8	13699.5	13718.7	13673.6
20°	13417.3	13502.7	13467.3	13378.6	13267.4
22.5°	13183.6	13286.7	13146.6	12922.5	12766.0
25°	12907.9	13030.4	12714.5	12335.7	12161.5
27.5°	12603.2	12712.8	12187.3	11723.1	11542.5
30°	12261.5	12308.2	11576.3	11134.6	11012.0
32.5°	11866.5	11798.8	10923.4	10631.6	10560.7
35°	11423.2	11183.0	10291.5	10141.6	10077.0
37.5°	10923.4	10483.4	9667.7	9598.3	9530.5
40°	10325.4	9675.6	8998.7	8953.6	8850.3
42.5°	9553.2	8797.1	8255.4	8202.2	8110.3
45°	8566.6	7841.1	7417.2	7473.6	7389.8
47.5°	7431.6	6882.0	6612.8	6767.5	6612.8
50°	6316.1	5947.0	5872.8	6013.1	5832.5
52.5°	5402.1	5070.0	5223.2	5247.3	5139.4
55°	4679.8	4272.0	4592.9	4528.3	4591.2
57.5°	4051.2	3594.9	3989.9	3915.7	4131.8
60°	3532.1	3019.5	3428.9	3412.8	3833.5
62.5°	3022.7	2613.2	2942.0	3179.0	3696.4
65°	2587.4	2297.2	2571.2	3006.5	3266.1
67.5°	2169.8	2060.2	2352.0	2593.8	2877.6
70°	1805.5	1861.9	2334.2	2289.1	2519.6
72.5°	1499.2	1691.1	2060.2	2068.3	2231.1
75°	1225.2	1541.2	1810.4	1934.5	1987.7
77.5°	1018.8	1397.7	1634.7	1678.2	1626.6
80°	854.4	1231.6	1429.9	1410.6	1338.0
82.5°	689.9	933.4	1126.9	1144.6	1059.1
85°	486.8	677.1	827.1	831.9	767.3
87.5°	261.1	417.6	501.4	515.9	477.1
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)