

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: P731023

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CL-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33699.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

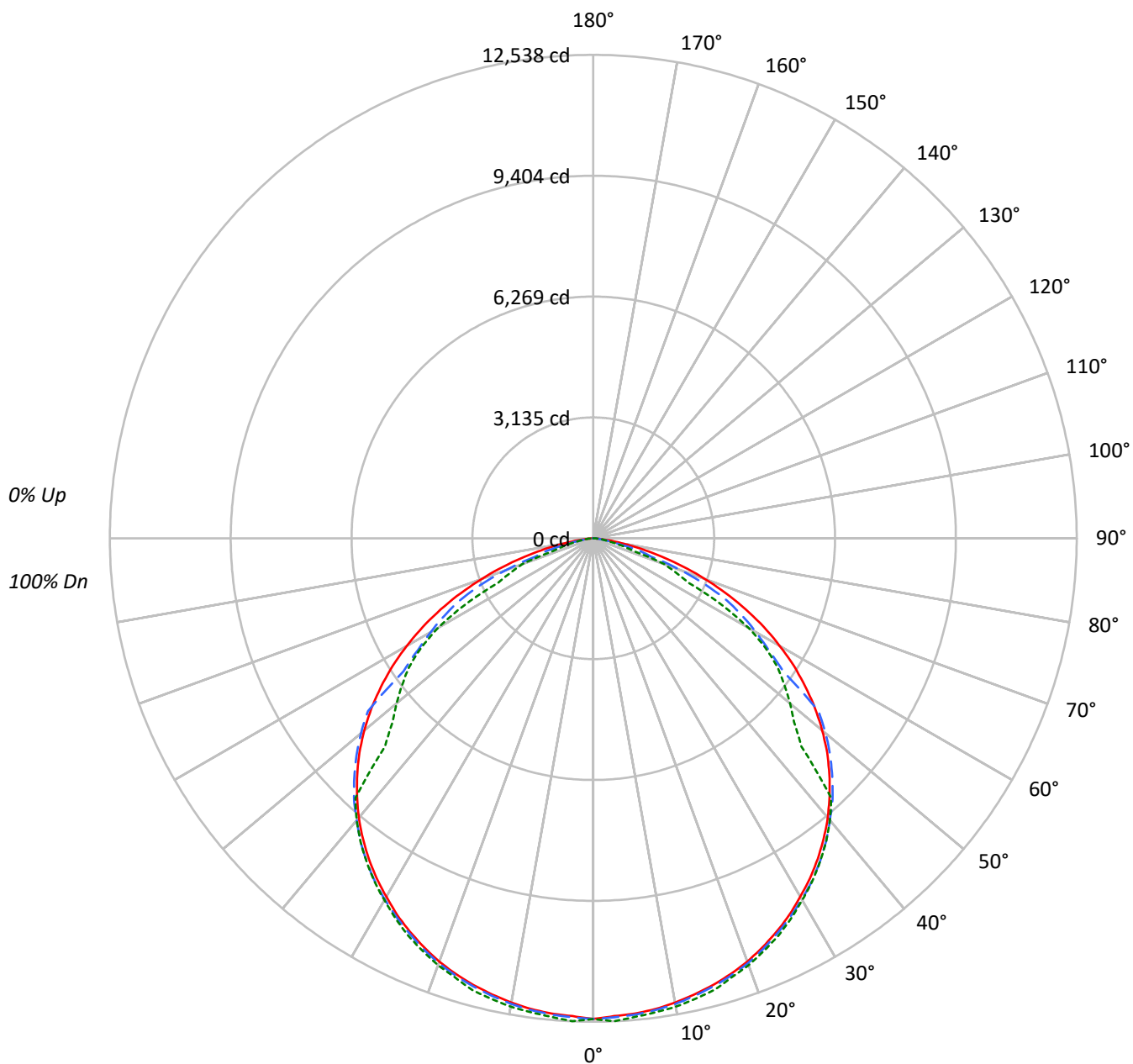
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20126	20126	20126
5°	20053	20097	20196
10°	20051	20108	20225
15°	20049	20110	20273
20°	20075	20150	20244
25°	20052	20127	20249
30°	20014	20161	20206
35°	20004	20187	20202
40°	19942	20118	20118
45°	19771	20010	17435
50°	19466	19759	16729
55°	18913	16914	16431
60°	18026	15723	15012
65°	16670	14595	10396
70°	14516	11357	9264
75°	11466	7622	4980
80°	7380	3640	3104
85°	3038	2223	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.4	3.5
10°-20°	3408.2	10.1
20°-30°	5225.2	15.5
30°-40°	6404.3	19.0
40°-50°	6584.2	19.5
50°-60°	5619.2	16.7
60°-70°	3715.0	11.0
70°-80°	1376.4	4.1
80°-90°	184.1	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°	9815.8	29.1
0°-40°	16220.2	48.1
0°-60°	28423.6	84.3
0°-90°	33699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12465	12465	12465	12465	12465	
5°	12373	12459	12400	12448	12461	###
15°	11995	12068	12031	12122	12128	3388
25°	11256	11315	11298	11400	11366	5190
35°	10149	10219	10242	10306	10249	6348
45°	8659	8745	8763	8750	7636	6673
55°	6719	6842	6009	5834	5837	5995
65°	4364	4400	3820	3142	2721	4303
75°	1838	1610	1222	821	798	1972
85°	164	117	120	130	132	271
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12465.1	12465.1	12465.1	12465.1	12465.1
2.5°	12404.4	12481.9	12436.2	12493.9	12537.9
5°	12372.6	12459.0	12399.8	12448.4	12460.6
7.5°	12317.9	12398.3	12343.7	12407.4	12398.3
10°	12229.9	12302.7	12264.8	12331.6	12336.0
12.5°	12117.6	12190.4	12155.5	12237.4	12235.9
15°	11994.6	12067.5	12031.0	12122.2	12128.2
17.5°	11850.4	11917.3	11889.9	11973.4	11939.9
20°	11683.4	11741.1	11727.4	11806.4	11782.1
22.5°	11478.5	11537.8	11524.2	11615.2	11578.7
25°	11255.5	11314.7	11298.0	11399.7	11366.3
27.5°	11014.2	11070.3	11068.7	11164.5	11112.9
30°	10734.9	10809.3	10813.9	10898.8	10838.1
32.5°	10458.8	10528.5	10548.3	10610.5	10558.9
35°	10149.1	10218.8	10241.7	10305.5	10249.3
37.5°	9815.1	9874.3	9915.3	9962.3	9918.3
40°	9461.5	9514.6	9545.1	9602.6	9545.1
42.5°	9066.9	9142.9	9185.4	9226.3	9132.2
45°	8658.6	8745.1	8763.4	8749.7	7635.7
47.5°	8226.2	8320.2	8330.9	7265.4	7060.5
50°	7749.5	7868.0	7866.4	6714.4	6659.9
52.5°	7253.3	7367.1	7362.6	6283.4	6247.0
55°	6718.9	6841.9	6008.6	5834.2	5837.2
57.5°	6174.1	6262.1	5391.0	5398.5	5298.3
60°	5582.2	5665.7	4868.9	4821.9	4648.8
62.5°	4988.9	5023.7	4363.5	4134.2	3805.0
65°	4363.5	4399.9	3820.2	3141.7	2721.2
67.5°	3721.5	3757.9	3170.5	2337.3	2305.4
70°	3074.9	2777.4	2405.7	1947.3	1962.4
72.5°	2437.5	2133.9	1572.4	1508.6	1089.7
75°	1838.0	1610.3	1221.8	821.1	798.3
77.5°	1279.5	1109.4	654.1	560.1	523.7
80°	793.7	557.0	391.5	347.5	333.8
82.5°	402.2	320.3	212.5	212.5	212.5
85°	164.0	116.9	120.0	130.5	132.0
87.5°	34.9	47.0	57.7	59.2	57.7
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)