

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: P731035

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CLI-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34708.0 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

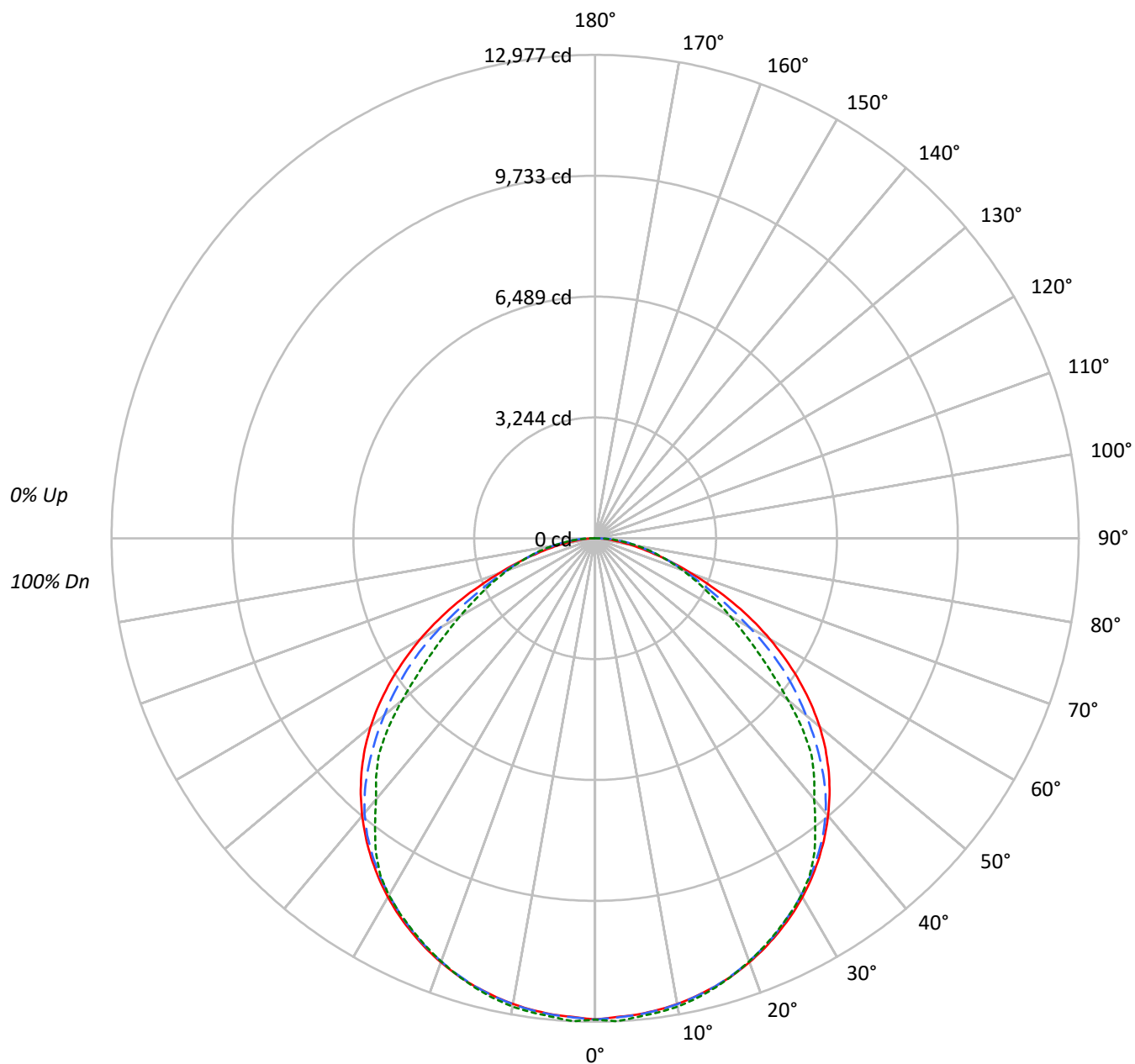
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20858	20858	20858
5°	20802	20817	20910
10°	20814	20824	20933
15°	20816	20814	20863
20°	20811	20763	20768
25°	20779	20702	20677
30°	20745	20621	20633
35°	20648	20520	20230
40°	20502	20292	19269
45°	20241	19593	18736
50°	19754	18550	16969
55°	18855	17349	15005
60°	17498	15479	13531
65°	15553	13402	12442
70°	12907	11977	11728
75°	10439	10961	11097
80°	8292	10484	10441
85°	6491	11263	10743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1225.1	3.5
10°-20°	3524.0	10.2
20°-30°	5373.4	15.5
30°-40°	6501.0	18.7
40°-50°	6585.0	19.0
50°-60°	5442.6	15.7
60°-70°	3594.8	10.4
70°-80°	1874.5	5.4
80°-90°	587.6	1.7
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°	10122.5	29.2
0°-40°	16623.5	47.9
0°-60°	28651.1	82.5
0°-90°	34708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12918	12918	12918	12918	12918	
5°	12835	12912	12844	12900	12902	###
15°	12453	12517	12452	12490	12481	3517
25°	11664	11710	11620	11650	11606	5378
35°	10476	10490	10411	10397	10264	6553
45°	8865	8841	8581	8314	8205	6826
55°	6698	6599	6163	5564	5330	5970
65°	4071	3953	3508	3280	3257	4021
75°	1673	1703	1757	1780	1779	1823
85°	350	451	608	603	580	425
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12918.4	12918.4	12918.4	12918.4	12918.4
2.5°	12864.3	12940.2	12876.6	12932.4	12977.4
5°	12834.7	12912.4	12844.1	12899.9	12901.5
7.5°	12777.5	12855.0	12785.1	12840.9	12839.4
10°	12695.1	12768.1	12701.4	12768.1	12768.1
12.5°	12583.6	12654.8	12589.8	12651.7	12642.4
15°	12453.3	12516.8	12451.8	12490.5	12481.2
17.5°	12299.7	12357.2	12284.2	12316.7	12298.2
20°	12112.1	12164.8	12084.2	12126.1	12087.2
22.5°	11901.1	11950.7	11868.6	11899.7	11856.1
25°	11663.9	11710.5	11620.5	11649.9	11606.5
27.5°	11408.0	11449.8	11349.0	11384.8	11350.5
30°	11127.3	11147.5	11060.7	11107.2	11066.9
32.5°	10814.0	10826.5	10750.4	10792.2	10724.1
35°	10475.9	10489.9	10410.8	10396.8	10263.5
37.5°	10114.6	10120.8	10046.4	9920.7	9700.5
40°	9727.0	9723.8	9627.7	9337.6	9142.2
42.5°	9312.7	9311.3	9142.2	8811.8	8700.3
45°	8864.6	8841.4	8580.8	8314.0	8205.4
47.5°	8383.9	8359.0	7994.6	7782.2	7535.5
50°	7864.3	7820.9	7385.1	7095.0	6755.5
52.5°	7304.5	7237.7	6794.2	6325.9	6004.8
55°	6698.1	6598.8	6163.1	5564.5	5330.3
57.5°	6066.9	5919.6	5496.2	4913.1	4722.3
60°	5418.7	5254.2	4793.6	4314.5	4190.3
62.5°	4751.8	4589.0	4119.1	3757.7	3689.4
65°	4071.0	3953.0	3508.0	3280.0	3256.8
67.5°	3373.1	3331.2	2991.5	2875.3	2866.0
70°	2734.2	2726.4	2537.2	2478.2	2484.4
72.5°	2185.2	2175.8	2148.0	2118.4	2120.0
75°	1673.4	1702.8	1757.1	1780.3	1778.9
77.5°	1248.4	1309.0	1423.6	1470.2	1462.4
80°	891.8	981.7	1127.5	1170.9	1122.9
82.5°	593.9	688.6	860.7	866.9	828.1
85°	350.4	451.3	608.0	603.3	579.9
87.5°	173.7	271.4	364.4	348.9	333.5
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)