

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: P731005

Luminaire Tested: **HBLED-LD5-36SE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731005
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-L850
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35978.0 lumens
Efficiency: N/A
Efficacy: 158.1 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

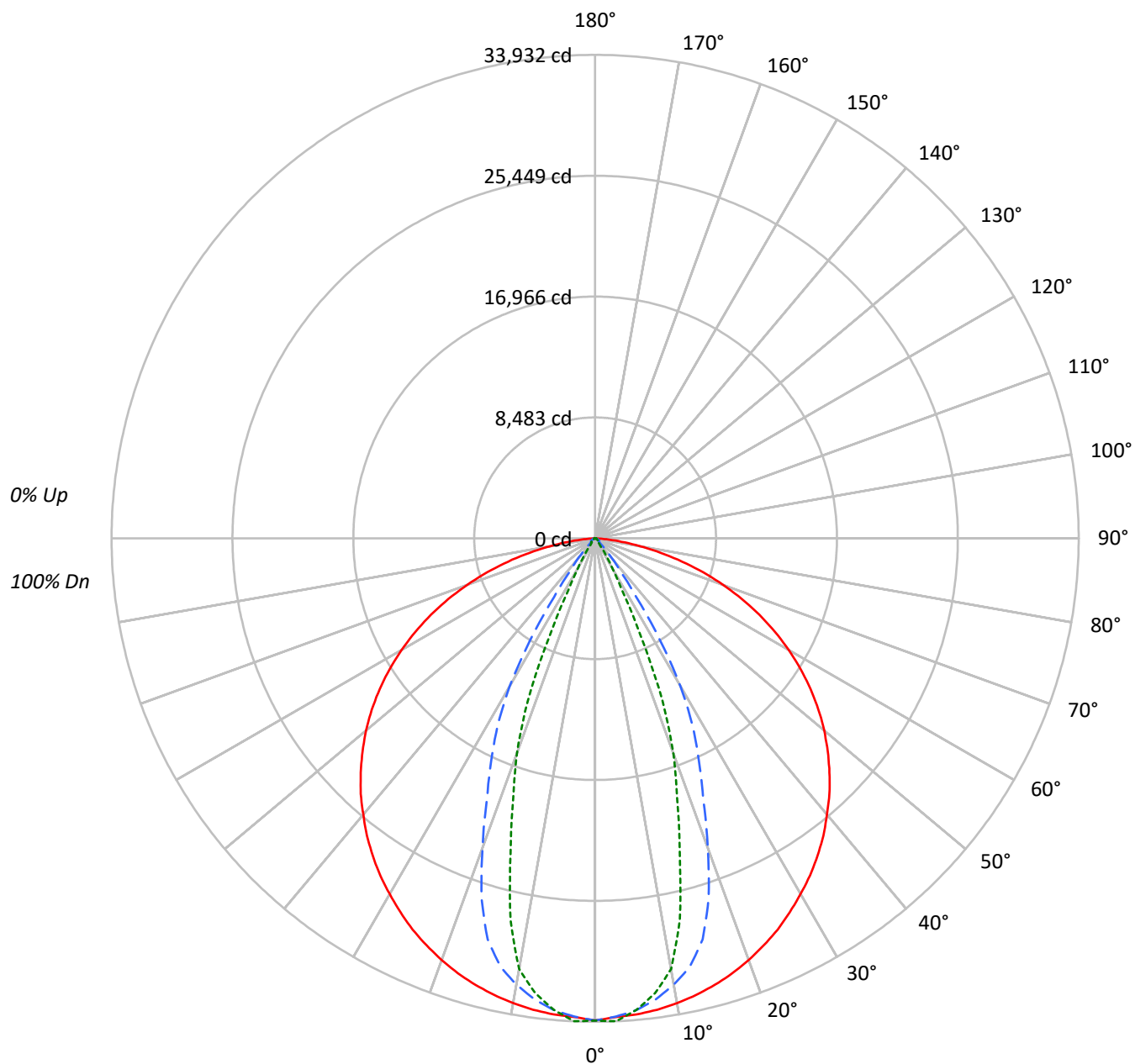
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89	102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	90	84	79	96	88	83	78		86	81	77		83	79	76		81	77	74
4	92	82	76	70	90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	76	69	64	84	75	68	63		73	67	63		71	66	62		70	65	62
6	81	70	63	58	79	70	63	58		68	62	58		66	61	57		65	60	57
7	76	66	58	54	75	65	58	53		63	57	53		62	57	53		61	56	52
8	72	61	54	49	71	61	54	49		59	53	49		58	53	49		57	52	49
9	68	57	51	46	67	57	50	46		56	50	46		55	49	46		54	49	45
10	65	54	47	43	64	53	47	43		53	47	43		52	46	43		51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54653	54653	54653
5°	54361	53881	53857
10°	54327	52154	50325
15°	54250	48724	38300
20°	54124	39720	27568
25°	53986	30712	13580
30°	53748	22321	4404
35°	53621	9903	1133
40°	53340	4022	763
45°	53101	1129	813
50°	52688	801	902
55°	51928	952	385
60°	50647	1061	234
65°	48564	677	277
70°	45116	601	342
75°	39468	452	472
80°	29510	554	674
85°	14618	715	893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3141.3	8.7
10°-20°	7854.8	21.8
20°-30°	8508.0	23.6
30°-40°	6300.5	17.5
40°-50°	4538.0	12.6
50°-60°	2809.9	7.8
60°-70°	1728.1	4.8
70°-80°	911.0	2.5
80°-90°	186.5	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°	19504.1	54.2
0°-40°	25804.6	71.7
0°-60°	33152.5	92.1
0°-90°	35978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33850	33850	33850	33850	33850	
5°	33540	33665	33244	33268	33230	###
15°	32455	31702	29149	24789	22913	9162
25°	30304	27758	17240	10845	7623	13963
35°	27204	19178	5024	1182	575	17019
45°	23256	10805	494	357	356	17935
55°	18447	2225	338	306	137	16468
65°	12712	235	177	113	72	12542
75°	6327	55	72	95	76	6682
85°	789	21	39	58	48	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33849.7	33849.7	33849.7	33849.7	33849.7
2.5°	33632.3	33846.6	33593.8	33782.2	33931.9
5°	33540.5	33664.6	33244.3	33268.4	33229.8
7.5°	33379.5	33350.6	32643.7	32334.5	32199.3
10°	33136.4	32944.7	31811.2	31165.5	30695.2
12.5°	32822.4	32394.1	30772.6	28719.4	27444.1
15°	32455.2	31701.7	29149.3	24788.8	22912.7
17.5°	32017.2	30949.6	26495.6	20775.8	19101.2
20°	31500.3	30110.6	23117.2	17676.1	16044.9
22.5°	30923.8	29089.7	19835.5	14690.6	12363.7
25°	30303.9	27758.1	17239.6	10845.2	7623.0
27.5°	29587.3	26046.3	14805.0	6388.0	3890.5
30°	28828.9	23985.1	11972.4	3436.3	2362.3
32.5°	28064.0	21648.6	8471.7	2146.5	1339.7
35°	27204.2	19178.4	5024.0	1181.9	574.9
37.5°	26307.1	16914.4	2969.3	537.9	368.8
40°	25307.2	14845.3	1908.1	357.4	362.2
42.5°	24341.1	12916.1	1074.1	352.6	359.1
45°	23255.6	10804.9	494.3	357.4	355.9
47.5°	22133.3	8616.6	320.4	360.7	360.7
50°	20975.6	6161.0	318.8	368.8	359.1
52.5°	19753.4	3843.8	331.7	367.2	294.7
55°	18447.4	2225.4	338.1	305.9	136.9
57.5°	17094.8	1312.3	341.4	175.5	77.3
60°	15684.1	726.2	328.5	130.4	72.5
62.5°	14230.0	346.2	259.2	122.5	70.8
65°	12711.5	235.1	177.1	112.7	72.5
67.5°	11135.1	181.9	140.0	106.3	74.1
70°	9557.0	135.2	127.3	106.3	72.5
72.5°	7953.2	91.8	106.3	107.8	72.5
75°	6326.7	54.8	72.5	95.1	75.6
77.5°	4714.9	33.8	56.3	98.2	91.8
80°	3173.8	28.9	59.6	91.8	72.5
82.5°	1863.2	25.8	58.0	70.8	58.0
85°	789.1	21.0	38.6	58.0	48.2
87.5°	148.1	17.7	30.7	46.7	41.9
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)