

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: P730987

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CL-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH NARROW 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): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

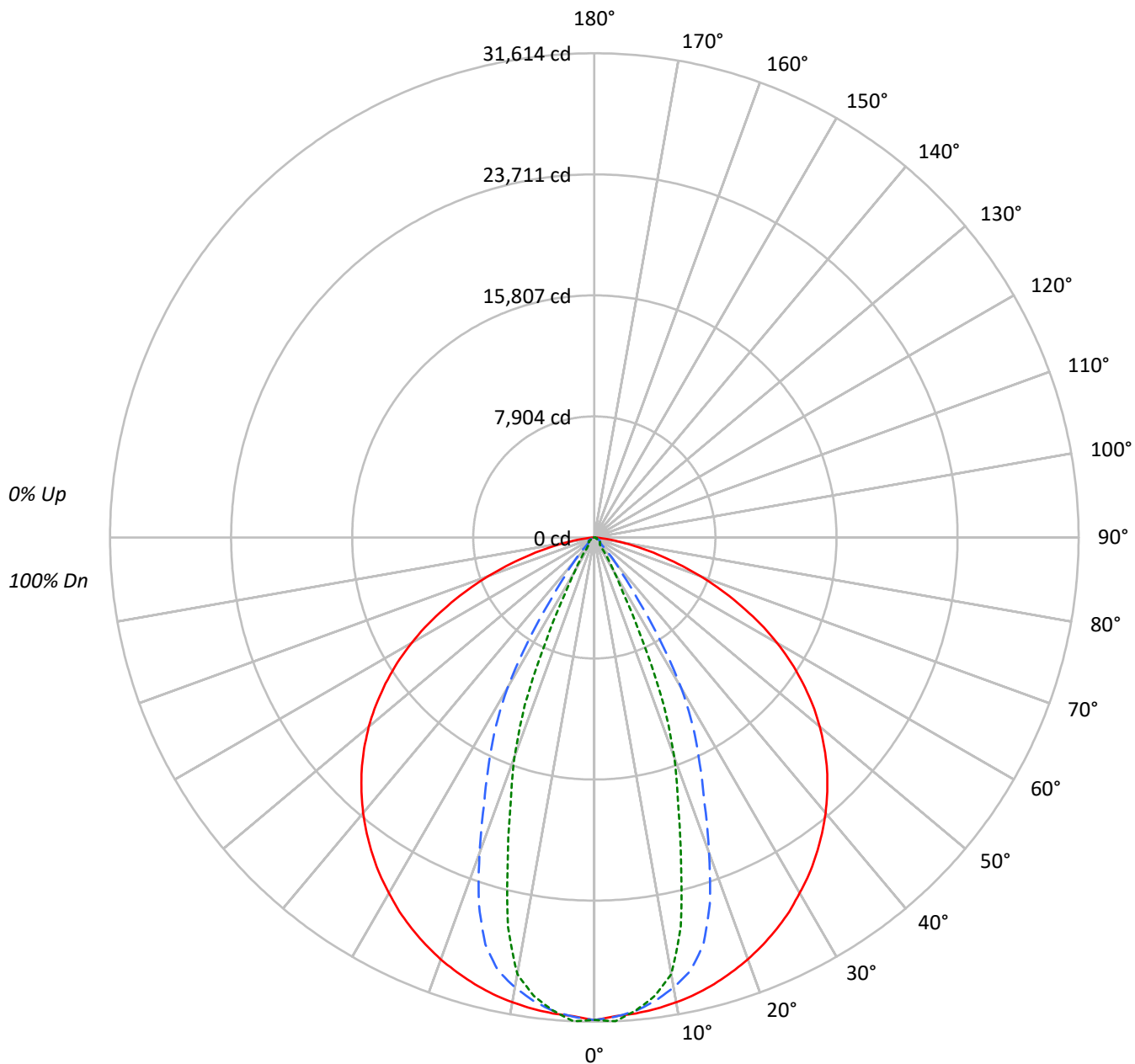
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	105	103	109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90	102	97	92	89		94	90	87		91	87	85		88	85	83
3	98	90	84	79	96	89	83	79		86	81	77		83	79	76		81	78	75
4	92	83	76	71	90	82	75	71		79	74	70		77	73	69		75	71	68
5	86	76	69	64	85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	71	64	59	80	70	63	58		68	62	58		67	62	58		65	61	57
7	77	66	59	54	75	65	58	54		64	58	53		62	57	53		61	56	53
8	72	61	55	50	71	61	54	50		60	54	49		59	53	49		58	53	49
9	69	58	51	46	67	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43	64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50875	50875	50875
5°	50562	50298	50262
10°	50528	48908	47464
15°	50470	45991	36495
20°	50372	37636	26178
25°	50214	28998	13303
30°	49976	21163	4840
35°	49798	9719	1684
40°	49491	4411	1162
45°	49051	1646	1178
50°	48269	1195	1240
55°	46840	1257	944
60°	44512	1343	833
65°	40367	1023	677
70°	34611	738	624
75°	26454	654	594
80°	16552	615	645
85°	5228	717	867



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2933.5	8.7
10°-20°	7389.8	21.9
20°-30°	8047.8	23.9
30°-40°	6020.1	17.9
40°-50°	4328.6	12.8
50°-60°	2658.4	7.9
60°-70°	1529.7	4.5
70°-80°	682.8	2.0
80°-90°	108.3	0.3
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°	18371.0	54.5
0°-40°	24391.2	72.4
0°-60°	31378.2	93.1
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°	31509	31509	31509	31509	31509	
5°	31197	31343	31034	31063	31011	###
15°	30194	29615	27514	23630	21833	8523
25°	28186	26164	16277	10444	7467	12993
35°	25265	18120	4931	1450	854	15804
45°	21482	10181	721	534	516	16549
55°	16640	2115	447	432	335	14836
65°	10566	232	268	222	177	10459
75°	4241	140	105	108	95	4602
85°	282	27	39	50	47	562
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31509.4	31509.4	31509.4	31509.4	31509.4
2.5°	31290.2	31494.9	31322.4	31477.2	31614.2
5°	31196.7	31343.4	31033.8	31062.7	31011.3
7.5°	31035.4	31070.8	30511.4	30295.3	30190.5
10°	30819.3	30724.2	29831.0	29316.7	28950.6
12.5°	30546.9	30232.5	28984.4	27147.9	26053.2
15°	30193.7	29614.9	27513.9	23629.7	21833.4
17.5°	29772.9	28969.9	25079.2	19693.7	18139.5
20°	29316.7	28257.2	21904.3	16744.8	15235.5
22.5°	28778.1	27346.2	18773.1	13926.2	11854.4
25°	28186.3	26164.4	16277.2	10443.5	7467.1
27.5°	27547.9	24605.1	13966.5	6404.4	4037.4
30°	26806.1	22707.4	11351.3	3594.1	2596.0
32.5°	26082.1	20495.2	8108.8	2394.3	1659.1
35°	25264.6	18120.2	4930.7	1449.6	854.5
37.5°	24398.7	15961.0	3086.1	788.4	590.1
40°	23481.3	13913.3	2092.8	559.6	551.5
42.5°	22500.9	12060.7	1310.8	532.0	549.8
45°	21482.0	10180.6	720.7	533.8	516.0
47.5°	20375.9	8139.4	503.1	504.7	503.1
50°	19216.6	5838.4	475.7	498.3	493.5
52.5°	17966.9	3624.7	477.3	486.9	437.0
55°	16639.9	2115.4	446.6	432.2	335.4
57.5°	15245.1	1318.9	437.0	356.4	301.5
60°	13784.4	696.6	416.0	320.9	257.9
62.5°	12228.4	343.5	333.7	274.1	211.3
65°	10566.0	232.3	267.7	222.5	177.3
67.5°	8960.1	209.5	201.6	182.2	154.8
70°	7331.6	191.8	156.3	159.6	132.2
72.5°	5733.7	174.1	125.7	137.1	111.2
75°	4240.6	140.3	104.9	108.0	95.2
77.5°	2950.6	109.7	82.3	91.9	88.7
80°	1780.2	69.4	66.1	75.8	69.4
82.5°	862.6	45.1	51.6	59.6	54.8
85°	282.2	27.4	38.7	49.9	46.8
87.5°	35.5	16.2	32.2	43.6	40.3
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)