

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: P730986

Luminaire Tested: **HBLED-LD5-36SE-N-CL-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730986
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-L840
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: 33051.0 lumens
Efficiency: N/A
Efficacy: 145.3 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

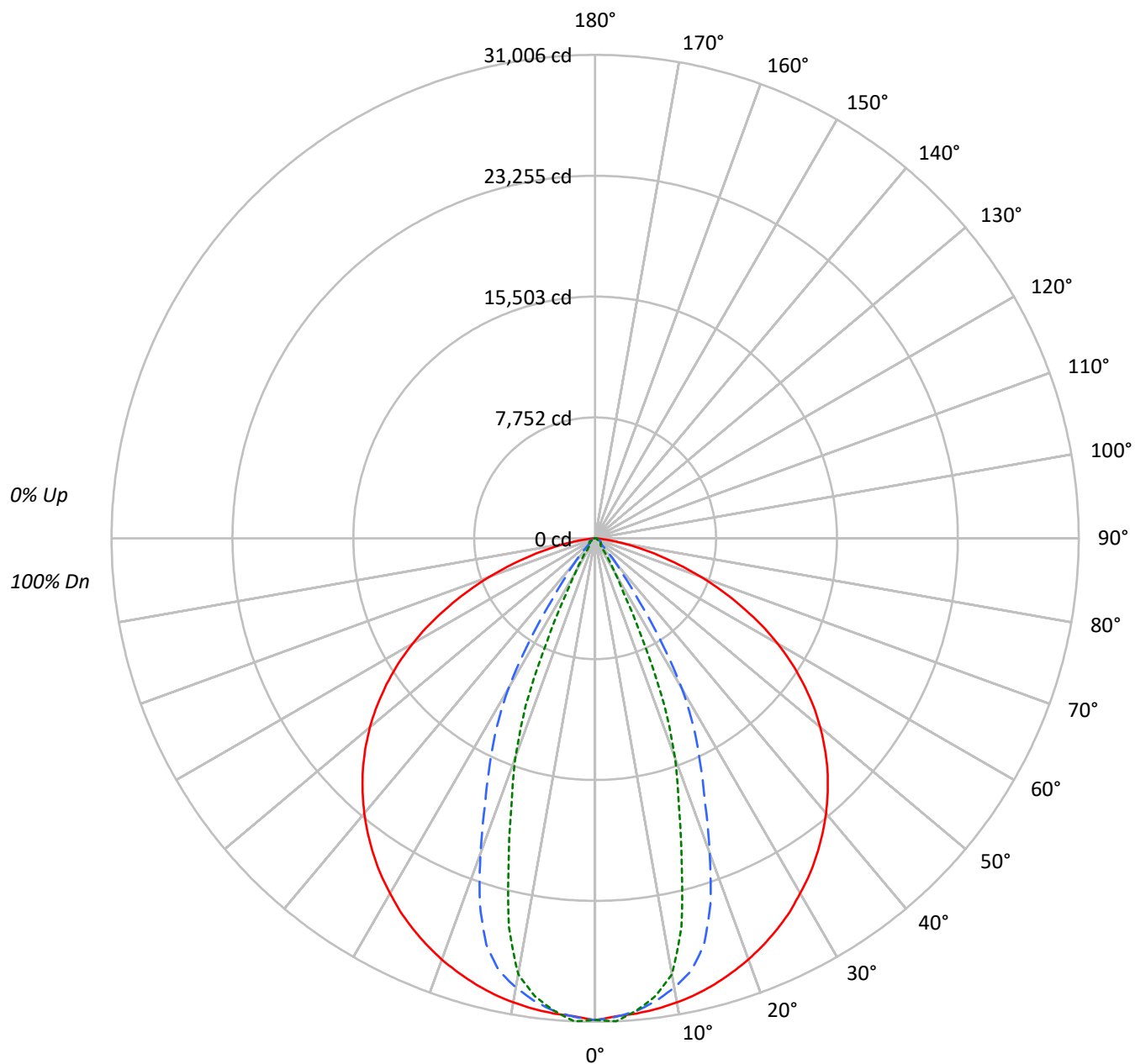
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49896	49896	49896
5°	49590	49331	49295
10°	49557	47967	46552
15°	49500	45106	35794
20°	49403	36912	25674
25°	49248	28440	13047
30°	49015	20756	4747
35°	48840	9532	1652
40°	48540	4326	1140
45°	48108	1614	1156
50°	47341	1172	1216
55°	45940	1233	926
60°	43656	1318	817
65°	39590	1003	664
70°	33945	724	612
75°	25946	641	583
80°	16233	603	632
85°	5128	704	850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2877.1	8.7
10°-20°	7247.7	21.9
20°-30°	7893.0	23.9
30°-40°	5904.4	17.9
40°-50°	4245.4	12.8
50°-60°	2607.3	7.9
60°-70°	1500.3	4.5
70°-80°	669.6	2.0
80°-90°	106.2	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°	18017.8	54.5
0°-40°	23922.1	72.4
0°-60°	30774.9	93.1
0°-90°	33051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30904	30904	30904	30904	30904	
5°	30597	30741	30437	30465	30415	###
15°	29613	29045	26985	23175	21414	8359
25°	27644	25661	15964	10243	7324	12743
35°	24779	17772	4836	1422	838	15500
45°	21069	9985	707	524	506	16231
55°	16320	2075	438	424	329	14550
65°	10363	228	263	218	174	10258
75°	4159	138	103	106	93	4513
85°	277	27	38	49	46	552
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30903.5	30903.5	30903.5	30903.5	30903.5
2.5°	30688.5	30889.3	30720.1	30871.9	31006.3
5°	30596.8	30740.7	30437.1	30465.4	30414.9
7.5°	30438.6	30473.4	29924.7	29712.8	29609.9
10°	30226.7	30133.4	29257.3	28752.9	28393.9
12.5°	29959.5	29651.1	28427.0	26625.9	25552.2
15°	29613.1	29045.4	26984.9	23175.4	21413.6
17.5°	29200.4	28412.8	24596.9	19315.0	17790.7
20°	28752.9	27713.9	21483.1	16422.8	14942.5
22.5°	28224.7	26820.4	18412.1	13658.4	11626.4
25°	27644.3	25661.3	15964.2	10242.7	7323.5
27.5°	27018.1	24132.0	13698.0	6281.2	3959.8
30°	26290.7	22270.7	11133.0	3525.0	2546.0
32.5°	25580.6	20101.1	7952.9	2348.3	1627.2
35°	24778.8	17771.7	4835.9	1421.7	838.1
37.5°	23929.5	15654.1	3026.8	773.3	578.7
40°	23029.8	13645.8	2052.6	548.8	540.9
42.5°	22068.3	11828.8	1285.6	521.8	539.2
45°	21068.9	9984.9	706.9	523.5	506.1
47.5°	19984.1	7982.9	493.4	495.0	493.4
50°	18847.1	5726.2	466.6	488.7	484.0
52.5°	17621.4	3555.0	468.1	477.6	428.6
55°	16320.0	2074.7	438.0	423.9	329.0
57.5°	14952.0	1293.5	428.6	349.6	295.7
60°	13519.3	683.2	408.0	314.8	253.0
62.5°	11993.2	336.9	327.3	268.8	207.2
65°	10362.8	227.8	262.6	218.2	173.9
67.5°	8787.8	205.5	197.7	178.7	151.8
70°	7190.6	188.1	153.3	156.5	129.7
72.5°	5623.5	170.7	123.3	134.4	109.1
75°	4159.1	137.6	102.8	105.9	93.4
77.5°	2893.9	107.6	80.7	90.2	87.0
80°	1745.9	68.0	64.8	74.3	68.0
82.5°	846.0	44.2	50.7	58.4	53.7
85°	276.8	26.9	38.0	49.0	45.9
87.5°	34.8	15.9	31.6	42.7	39.5
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)