

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: P731052

Luminaire Tested: **HBLED-LD5-36SE-W-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-WG-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34701.0 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

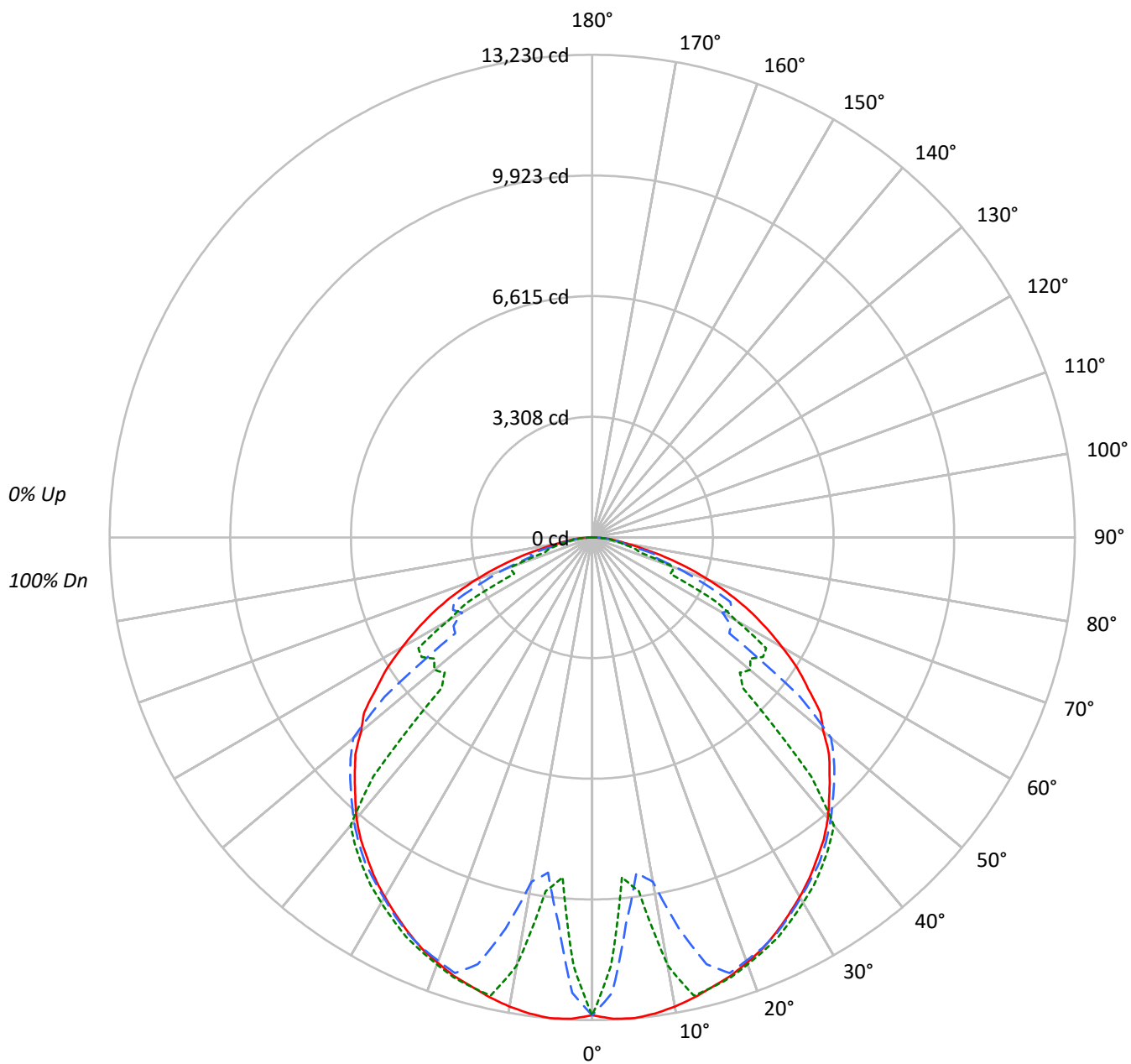
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21149	21149	21149
5°	21443	17226	15150
10°	21406	15710	19539
15°	21311	20248	21329
20°	21311	21214	21403
25°	21273	21320	21516
30°	21211	21281	21556
35°	21178	21412	21663
40°	21180	21411	21719
45°	21014	21426	13315
50°	20776	21469	14191
55°	20338	12909	16083
60°	19402	13306	14728
65°	18178	15977	9011
70°	16052	12104	11047
75°	12790	11002	7661
80°	8811	7951	6583
85°	8442	7340	6964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.4	3.0
10°-20°	3281.4	9.5
20°-30°	5398.6	15.6
30°-40°	6788.1	19.6
40°-50°	6657.4	19.2
50°-60°	5516.0	15.9
60°-70°	3890.6	11.2
70°-80°	1697.4	4.9
80°-90°	424.1	1.2
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°	9727.5	28.0
0°-40°	16515.5	47.6
0°-60°	28689.0	82.7
0°-90°	34701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13098	13098	13098	13098	13098	
5°	13230	12314	10628	9637	9347	###
15°	12749	8854	12113	12799	12760	3605
25°	11941	10926	11968	12048	12077	5504
35°	10744	10738	10863	10936	10990	6732
45°	9203	9232	9383	8311	5831	7104
55°	7225	7462	4586	5214	5714	6464
65°	4758	5039	4182	3217	2359	4678
75°	2050	2010	1764	1153	1228	2199
85°	456	406	396	379	376	473
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13098.5	13098.5	13098.5	13098.5	13098.5
2.5°	13206.6	12932.5	12497.1	11948.8	11754.7
5°	13230.1	12313.8	10628.5	9637.1	9347.3
7.5°	13162.8	11190.8	9266.0	9474.1	9781.2
10°	13056.2	10204.1	9582.3	11273.8	11917.6
12.5°	12920.0	9327.0	10977.7	12735.1	12863.5
15°	12749.2	8854.0	12113.4	12799.4	12760.2
17.5°	12605.1	9131.2	12520.6	12670.9	12642.7
20°	12403.0	9684.1	12346.7	12467.3	12456.3
22.5°	12199.4	10338.7	12182.2	12268.4	12268.4
25°	11941.1	10926.1	11967.6	12047.6	12077.3
27.5°	11657.5	11264.3	11699.8	11765.5	11818.8
30°	11377.1	11313.0	11414.8	11499.4	11562.0
32.5°	11081.2	11056.2	11136.0	11225.3	11305.1
35°	10744.4	10738.1	10863.4	10935.5	10990.4
37.5°	10428.0	10406.2	10522.0	10622.3	10664.6
40°	10049.0	10049.0	10158.6	10260.4	10304.4
42.5°	9616.7	9677.9	9762.4	9867.3	8886.9
45°	9203.2	9231.5	9383.3	8310.6	5831.1
47.5°	8805.4	8841.4	8985.6	5342.4	5488.2
50°	8271.3	8434.2	8547.0	5326.9	5649.5
52.5°	7881.4	7951.8	7174.9	5273.6	5455.2
55°	7225.1	7461.5	4585.9	5214.1	5713.6
57.5°	6664.4	6836.7	4509.3	5342.4	5652.5
60°	6008.2	6271.3	4120.7	5154.6	4560.9
62.5°	5378.4	5629.0	4302.5	4056.6	3862.3
65°	4758.2	5038.6	4181.9	3217.1	2358.7
67.5°	4078.4	3817.0	3336.1	2266.4	2385.4
70°	3400.4	2665.8	2564.0	2534.2	2340.0
72.5°	2703.3	1945.3	1702.5	1901.5	1361.1
75°	2050.3	2009.5	1763.7	1152.7	1228.0
77.5°	1422.1	1450.3	944.4	1124.5	933.4
80°	947.6	820.8	855.1	717.3	708.0
82.5°	656.3	670.3	562.2	545.0	552.9
85°	455.7	405.7	396.2	379.1	375.9
87.5°	151.9	177.0	164.5	148.8	158.3
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)