

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: P731002

Luminaire Tested: **HBLED-LD5-36SE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731002
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-L750
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37856.0 lumens
Efficiency: N/A
Efficacy: 166.4 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

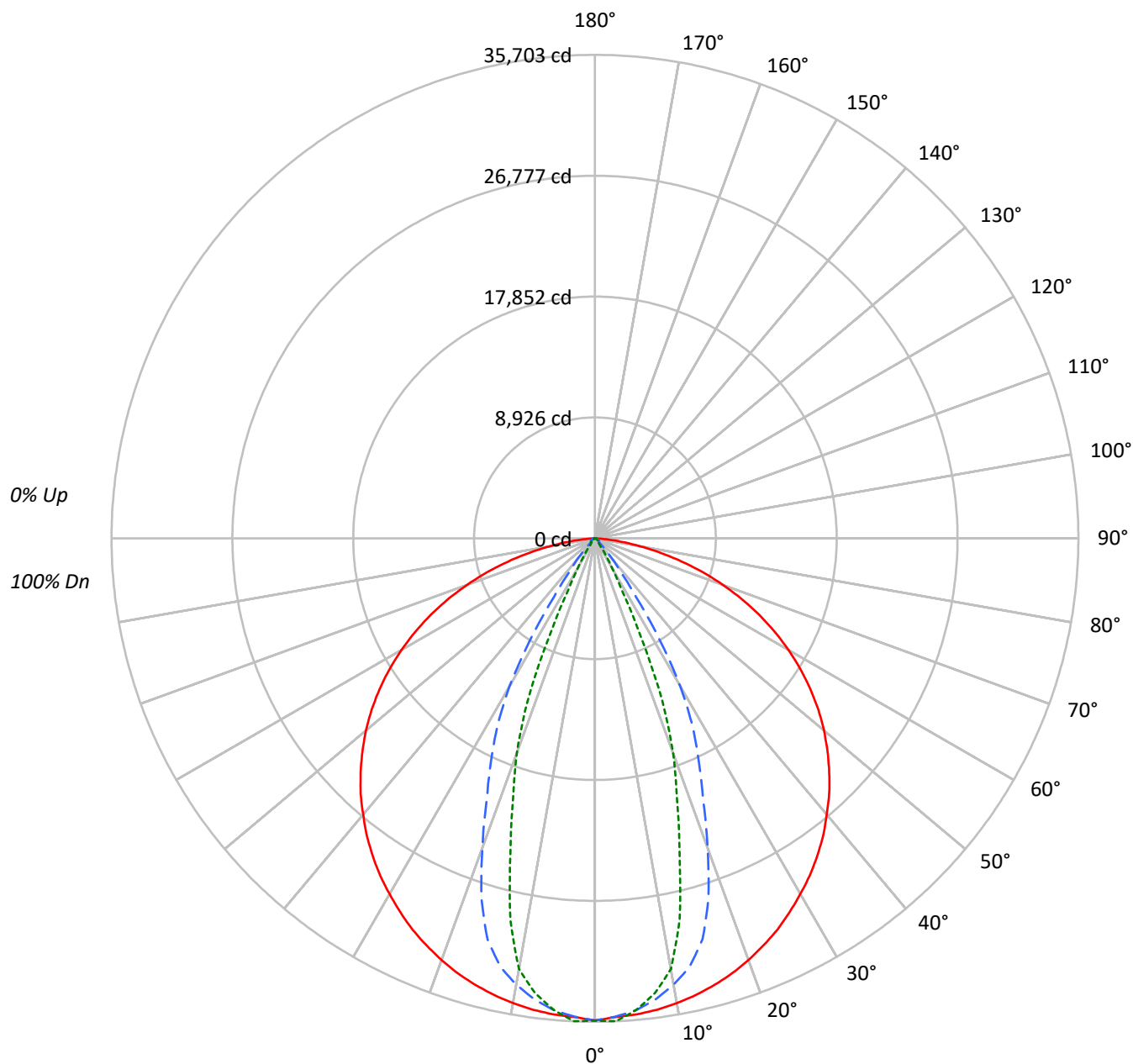
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57506	57506	57506
5°	57199	56693	56669
10°	57163	54877	52952
15°	57082	51268	40299
20°	56949	41793	29008
25°	56804	32316	14289
30°	56553	23486	4634
35°	56420	10420	1192
40°	56124	4232	803
45°	55873	1188	855
50°	55438	843	949
55°	54639	1002	406
60°	53290	1116	246
65°	51098	712	291
70°	47471	632	360
75°	41528	476	497
80°	31051	583	709
85°	15380	752	941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3305.3	8.7
10°-20°	8264.8	21.8
20°-30°	8952.1	23.6
30°-40°	6629.4	17.5
40°-50°	4774.9	12.6
50°-60°	2956.6	7.8
60°-70°	1818.2	4.8
70°-80°	958.5	2.5
80°-90°	196.2	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°	20522.2	54.2
0°-40°	27151.6	71.7
0°-60°	34883.0	92.1
0°-90°	37856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35617	35617	35617	35617	35617	
5°	35291	35422	34980	35005	34964	###
15°	34149	33356	30671	26083	24109	9640
25°	31886	29207	18140	11411	8021	14692
35°	28624	20180	5286	1244	605	17908
45°	24470	11369	520	376	374	18871
55°	19410	2342	356	322	144	17328
65°	13375	247	186	118	76	13197
75°	6657	58	76	100	80	7031
85°	830	22	41	61	51	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35616.6	35616.6	35616.6	35616.6	35616.6
2.5°	35387.9	35613.4	35347.3	35545.6	35703.1
5°	35291.3	35421.8	34979.6	35005.0	34964.4
7.5°	35121.9	35091.4	34347.6	34022.3	33880.0
10°	34866.1	34664.4	33471.7	32792.2	32297.5
12.5°	34535.7	34085.0	32378.8	30218.5	28876.6
15°	34149.3	33356.4	30670.9	26082.7	24108.7
17.5°	33688.5	32565.2	27878.6	21860.3	20098.3
20°	33144.6	31682.4	24323.8	18598.8	16882.5
22.5°	32538.0	30608.2	20870.9	15457.4	13009.1
25°	31885.7	29207.0	18139.5	11411.3	8021.0
27.5°	31131.8	27405.9	15577.8	6721.5	4093.6
30°	30333.8	25237.1	12597.3	3615.7	2485.6
32.5°	29528.9	22778.6	8913.9	2258.6	1409.7
35°	28624.2	20179.5	5286.3	1243.6	605.0
37.5°	27680.3	17797.3	3124.3	566.0	388.0
40°	26628.2	15620.2	2007.7	376.1	381.1
42.5°	25611.7	13590.3	1130.2	371.0	377.9
45°	24469.5	11368.9	520.1	376.1	374.4
47.5°	23288.6	9066.3	337.1	379.5	379.5
50°	22070.5	6482.6	335.5	388.0	377.9
52.5°	20784.5	4044.4	349.1	386.4	310.1
55°	19410.3	2341.6	355.8	321.9	144.1
57.5°	17987.1	1380.8	359.2	184.7	81.4
60°	16502.8	764.1	345.6	137.2	76.3
62.5°	14972.8	364.3	272.8	128.8	74.5
65°	13375.0	247.4	186.3	118.5	76.3
67.5°	11716.3	191.4	147.4	111.8	77.9
70°	10055.9	142.3	133.9	111.8	76.3
72.5°	8368.4	96.6	111.8	113.5	76.3
75°	6657.0	57.6	76.3	100.0	79.6
77.5°	4961.0	35.5	59.3	103.3	96.6
80°	3339.5	30.5	62.7	96.6	76.3
82.5°	1960.4	27.2	61.1	74.5	61.1
85°	830.2	22.1	40.6	61.1	50.8
87.5°	155.9	18.7	32.3	49.1	44.0
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)