

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: P730998

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLI-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32648.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

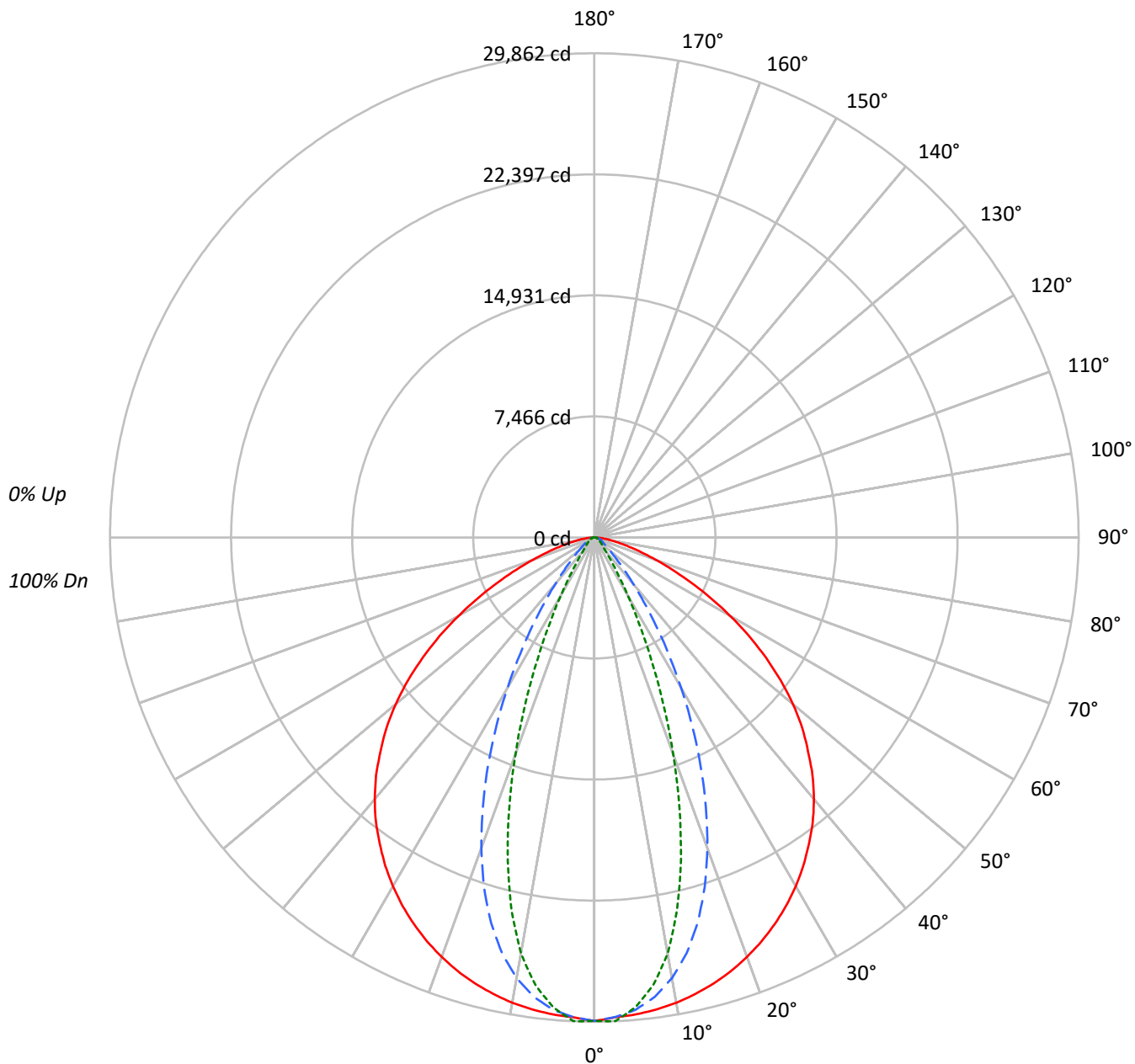
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48149	48149	48149
5°	47860	47384	47134
10°	47780	45238	42689
15°	47588	41121	34476
20°	47302	34990	24435
25°	46879	27591	14763
30°	46309	19913	7588
35°	45473	13018	3789
40°	44395	7820	2211
45°	42551	4670	1654
50°	40133	3054	1389
55°	36322	2317	1212
60°	31214	1973	1105
65°	25108	1800	1044
70°	18915	1928	1038
75°	13913	1833	1068
80°	10179	1825	1169
85°	7625	2214	1512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2746.4	8.4
10°-20°	6832.5	20.9
20°-30°	7568.0	23.2
30°-40°	6063.3	18.6
40°-50°	4328.4	13.3
50°-60°	2780.2	8.5
60°-70°	1506.7	4.6
70°-80°	644.0	2.0
80°-90°	178.6	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°	17146.8	52.5
0°-40°	23210.1	71.1
0°-60°	30318.7	92.9
0°-90°	32648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29822	29822	29822	29822	29822	
5°	29529	29640	29236	29143	29082	###
15°	28469	27579	24600	21740	20625	8033
25°	26314	23202	15487	10090	8287	12122
35°	23071	16687	6605	2664	1922	14425
45°	18635	9633	2045	870	724	14364
55°	12903	4307	823	506	430	11499
65°	6572	1768	471	325	273	6581
75°	2230	647	294	204	171	2478
85°	412	171	120	99	82	503
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29821.5	29821.5	29821.5	29821.5	29821.5
2.5°	29625.2	29810.6	29611.0	29735.1	29862.3
5°	29529.4	29639.5	29235.6	29143.0	29081.8
7.5°	29362.9	29331.5	28572.9	28081.2	27844.0
10°	29143.0	28888.5	27592.7	26512.1	26037.8
12.5°	28828.9	28304.3	26265.4	24368.0	23563.9
15°	28469.2	27578.6	24600.5	21740.3	20625.1
17.5°	28038.8	26730.4	22610.4	18922.5	17450.6
20°	27529.9	25706.3	20364.3	15928.6	14221.2
22.5°	26961.4	24525.1	17959.5	12944.2	11112.9
25°	26314.2	23202.5	15487.3	10090.3	8287.1
27.5°	25615.3	21734.0	13029.1	7539.4	5894.8
30°	24839.2	20144.4	10680.8	5436.3	4069.8
32.5°	23992.6	18454.4	8499.2	3823.1	2783.3
35°	23070.7	16687.3	6604.8	2663.9	1922.5
37.5°	22126.6	14884.1	4988.6	1883.2	1379.1
40°	21063.2	13087.1	3710.1	1379.1	1049.2
42.5°	19921.4	11324.9	2745.7	1061.7	849.7
45°	18635.0	9633.1	2045.1	870.2	724.2
47.5°	17387.9	8056.3	1553.4	741.4	629.8
50°	15977.4	6633.2	1215.7	647.2	552.8
52.5°	14480.4	5381.3	986.4	570.2	486.9
55°	12903.4	4306.9	823.0	505.7	430.4
57.5°	11306.0	3411.5	703.7	450.7	383.3
60°	9666.2	2728.3	611.0	403.6	342.3
62.5°	8065.7	2181.8	534.0	362.8	306.3
65°	6571.9	1768.5	471.2	325.2	273.3
67.5°	5191.1	1397.9	439.8	292.1	246.7
70°	4006.8	1088.5	408.4	260.7	219.9
72.5°	3036.1	835.7	361.3	232.5	194.8
75°	2230.3	647.2	293.8	204.2	171.2
77.5°	1595.9	498.0	238.7	177.4	147.7
80°	1094.8	370.8	196.3	152.3	125.7
82.5°	711.6	262.4	158.6	125.7	103.6
85°	411.6	171.2	119.5	99.0	81.6
87.5°	177.4	94.2	81.6	73.9	62.8
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)