

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: P731174

Luminaire Tested: **HBLED-LD5-60SE-W-AI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-AI-UNV-L735
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53307.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

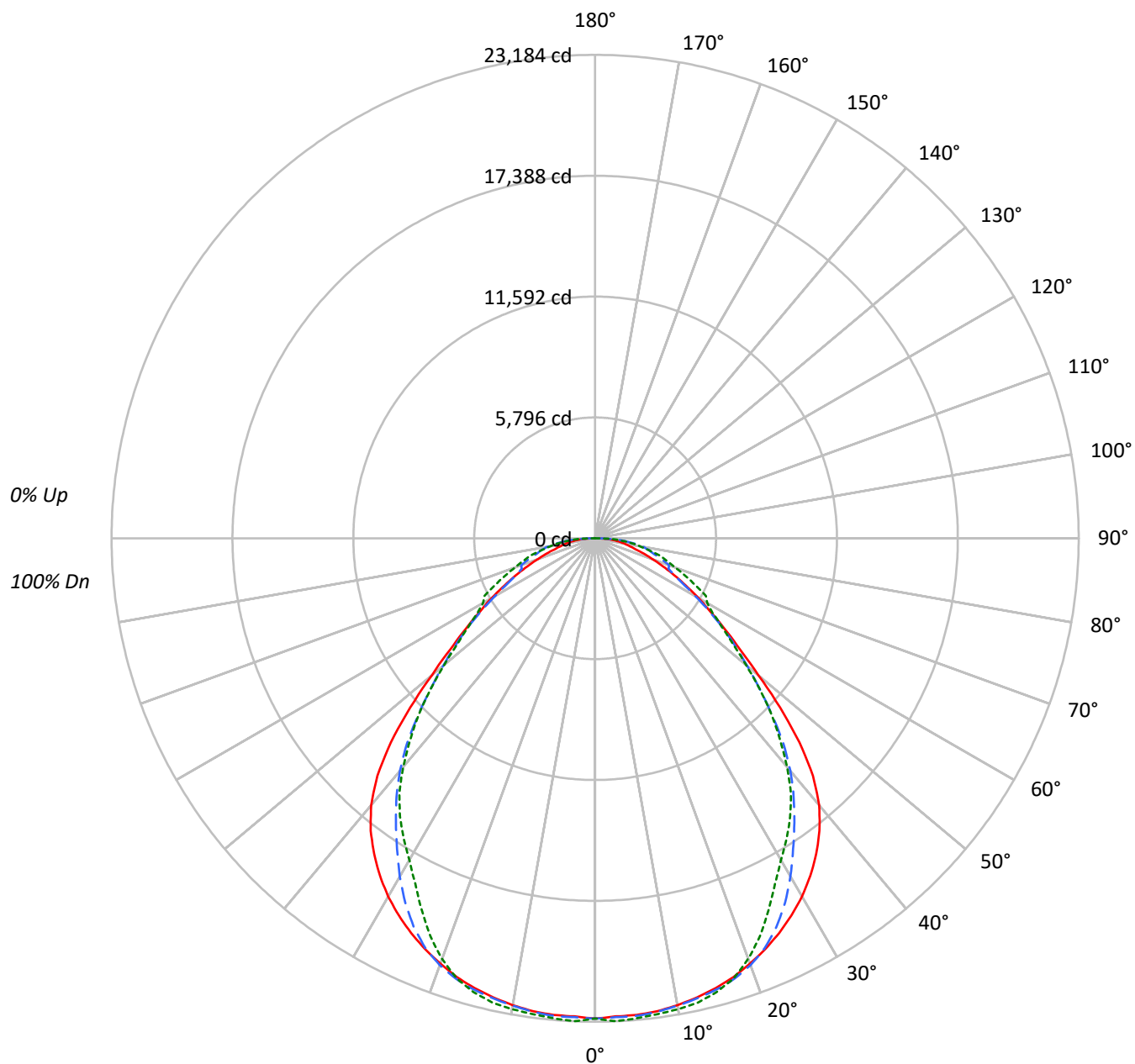
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		48	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37184	37184	37184
5°	37183	37263	37445
10°	37275	37322	37596
15°	37332	37472	37655
20°	37295	37433	36878
25°	37200	36643	35049
30°	36981	34914	33213
35°	36424	32815	32132
40°	35206	30682	30176
45°	31644	27398	27297
50°	25665	23864	23700
55°	21311	20915	20907
60°	18451	17913	20026
65°	15991	15891	20186
70°	13788	17826	19242
75°	12364	18271	20060
80°	12852	21507	20125
85°	14589	24787	22995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2192.8	4.1
10°-20°	6332.9	11.9
20°-30°	9405.7	17.6
30°-40°	10678.1	20.0
40°-50°	9545.8	17.9
50°-60°	6600.0	12.4
60°-70°	4355.0	8.2
70°-80°	2938.1	5.5
80°-90°	1258.4	2.4
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°	17931.4	33.6
0°-40°	28609.6	53.7
0°-60°	44755.4	84.0
0°-90°	53307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23030	23030	23030	23030	23030	
5°	22942	23082	22991	23085	23103	###
15°	22334	22441	22418	22542	22527	6304
25°	20881	21080	20568	19956	19674	9622
35°	18480	18091	16649	16406	16302	11524
45°	13858	12685	11999	12090	11955	10539
55°	7571	6911	7430	7326	7427	6876
65°	4186	3716	4160	4864	5284	4177
75°	1982	2493	2929	3130	3216	2165
85°	788	1095	1338	1346	1241	821
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23030.3	23030.3	23030.3	23030.3	23030.3
2.5°	22952.1	23095.5	22988.6	23087.7	23184.1
5°	22941.5	23082.4	22991.1	23084.9	23103.3
7.5°	22876.4	23006.7	22899.8	22991.1	23012.0
10°	22735.5	22889.4	22764.2	22905.0	22931.2
12.5°	22553.1	22709.6	22599.9	22792.8	22803.4
15°	22333.9	22440.9	22417.5	22542.5	22526.9
17.5°	22057.4	22180.2	22161.8	22193.0	22120.1
20°	21705.5	21843.6	21786.2	21642.8	21462.9
22.5°	21327.3	21494.1	21267.4	20904.9	20651.8
25°	20881.2	21079.5	20568.5	19955.6	19673.9
27.5°	20388.4	20565.8	19715.6	18964.6	18672.5
30°	19835.6	19911.1	18727.1	18012.6	17814.4
32.5°	19196.6	19087.2	17671.0	17199.0	17084.2
35°	18479.6	18090.9	16648.7	16406.2	16301.8
37.5°	17671.0	16959.2	15639.6	15527.4	15417.7
40°	16703.6	15652.4	14557.3	14484.3	14317.3
42.5°	15454.4	14231.2	13354.9	13268.9	13120.2
45°	13858.4	12684.7	11998.8	12090.2	11954.6
47.5°	12022.2	11133.1	10697.6	10948.0	10697.6
50°	10217.6	9620.6	9500.6	9727.5	9435.4
52.5°	8739.0	8201.8	8449.7	8488.7	8314.1
55°	7570.6	6910.9	7430.0	7325.6	7427.2
57.5°	6553.7	5815.5	6454.6	6334.5	6684.0
60°	5713.9	4884.6	5547.1	5520.9	6201.5
62.5°	4889.9	4227.5	4759.3	5142.8	5979.8
65°	4185.7	3716.2	4159.5	4863.7	5283.7
67.5°	3510.2	3332.8	3804.8	4196.0	4655.2
70°	2920.7	3012.0	3776.1	3703.2	4076.0
72.5°	2425.3	2735.8	3332.8	3345.9	3609.3
75°	1982.0	2493.3	2928.8	3129.5	3215.6
77.5°	1648.2	2261.0	2644.5	2714.9	2631.4
80°	1382.2	1992.3	2313.1	2281.9	2164.4
82.5°	1116.1	1510.0	1823.0	1851.7	1713.3
85°	787.5	1095.4	1338.0	1345.8	1241.3
87.5°	422.4	675.5	811.1	834.5	771.9
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)