

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: P731177

Luminaire Tested: **HBLED-LD5-60SE-W-AI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731177
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-L835
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: 50958.0 lumens
Efficiency: N/A
Efficacy: 138.9 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

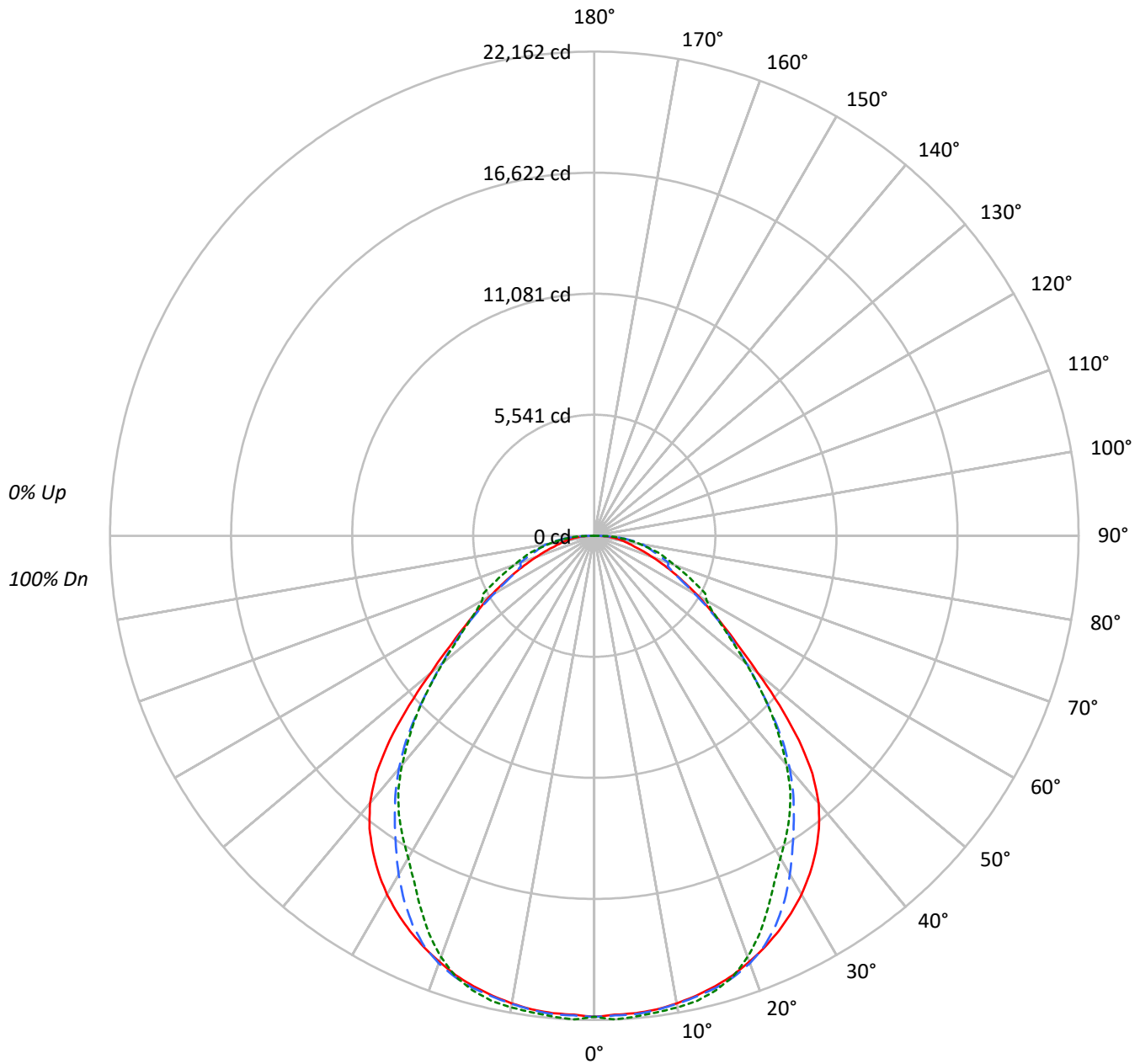
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35546	35546	35546
5°	35544	35621	35795
10°	35632	35677	35939
15°	35687	35821	35995
20°	35651	35784	35253
25°	35561	35028	33504
30°	35351	33376	31749
35°	34819	31369	30716
40°	33655	29330	28847
45°	30249	26190	26094
50°	24534	22812	22656
55°	20372	19993	19986
60°	17638	17123	19143
65°	15287	15191	19296
70°	13180	17040	18394
75°	11820	17465	19176
80°	12285	20560	19239
85°	13946	23694	21982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2096.2	4.1
10°-20°	6053.9	11.9
20°-30°	8991.3	17.6
30°-40°	10207.6	20.0
40°-50°	9125.2	17.9
50°-60°	6309.2	12.4
60°-70°	4163.1	8.2
70°-80°	2808.7	5.5
80°-90°	1203.0	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°	17141.3	33.6
0°-40°	27348.9	53.7
0°-60°	42783.2	84.0
0°-90°	50958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22016	22016	22016	22016	22016	
5°	21931	22065	21978	22068	22085	###
15°	21350	21452	21430	21549	21534	6026
25°	19961	20151	19662	19076	18807	9198
35°	17665	17294	15915	15683	15584	11016
45°	13248	12126	11470	11557	11428	10075
55°	7237	6606	7103	7003	7100	6573
65°	4001	3552	3976	4649	5051	3993
75°	1895	2383	2800	2992	3074	2069
85°	753	1047	1279	1286	1187	785
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22015.5	22015.5	22015.5	22015.5	22015.5
2.5°	21940.7	22077.8	21975.6	22070.3	22162.4
5°	21930.6	22065.3	21978.0	22067.7	22085.2
7.5°	21868.3	21992.9	21890.7	21978.0	21997.9
10°	21733.6	21880.8	21761.0	21895.7	21920.7
12.5°	21559.3	21708.8	21604.0	21788.5	21798.6
15°	21349.8	21452.0	21429.6	21549.2	21534.2
17.5°	21085.5	21202.8	21185.3	21215.1	21145.3
20°	20749.0	20881.0	20826.2	20689.1	20517.2
22.5°	20387.5	20547.0	20330.3	19983.7	19741.8
25°	19961.1	20150.6	19662.2	19076.3	18806.9
27.5°	19490.0	19659.5	18846.9	18128.9	17849.7
30°	18961.6	19033.7	17901.9	17218.9	17029.4
32.5°	18350.7	18246.1	16892.3	16441.1	16331.4
35°	17665.3	17293.7	15915.1	15683.3	15583.5
37.5°	16892.3	16211.9	14950.4	14843.2	14738.3
40°	15967.5	14962.7	13915.8	13846.1	13686.4
42.5°	14773.4	13604.1	12766.4	12684.2	12542.0
45°	13247.7	12125.7	11470.1	11557.4	11427.8
47.5°	11492.5	10642.5	10226.2	10465.5	10226.2
50°	9767.3	9196.6	9081.9	9298.8	9019.6
52.5°	8353.9	7840.4	8077.3	8114.6	7947.7
55°	7237.0	6606.4	7102.6	7002.8	7099.9
57.5°	6264.9	5559.2	6170.1	6055.4	6389.5
60°	5462.1	4669.4	5302.6	5277.6	5928.2
62.5°	4674.4	4041.2	4549.6	4916.1	5716.3
65°	4001.3	3552.5	3976.3	4649.4	5050.8
67.5°	3355.5	3186.0	3637.1	4011.1	4450.0
70°	2792.0	2879.3	3609.7	3540.0	3896.4
72.5°	2318.5	2615.2	3186.0	3198.5	3450.3
75°	1894.7	2383.4	2799.7	2991.6	3073.9
77.5°	1575.5	2161.4	2527.9	2595.3	2515.4
80°	1321.3	1904.6	2211.2	2181.4	2069.1
82.5°	1066.9	1443.5	1742.7	1770.1	1637.8
85°	752.8	1047.2	1279.0	1286.5	1186.6
87.5°	403.8	645.8	775.4	797.8	737.9
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)