

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: P731183

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-CLI-UNV-L835
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53673.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

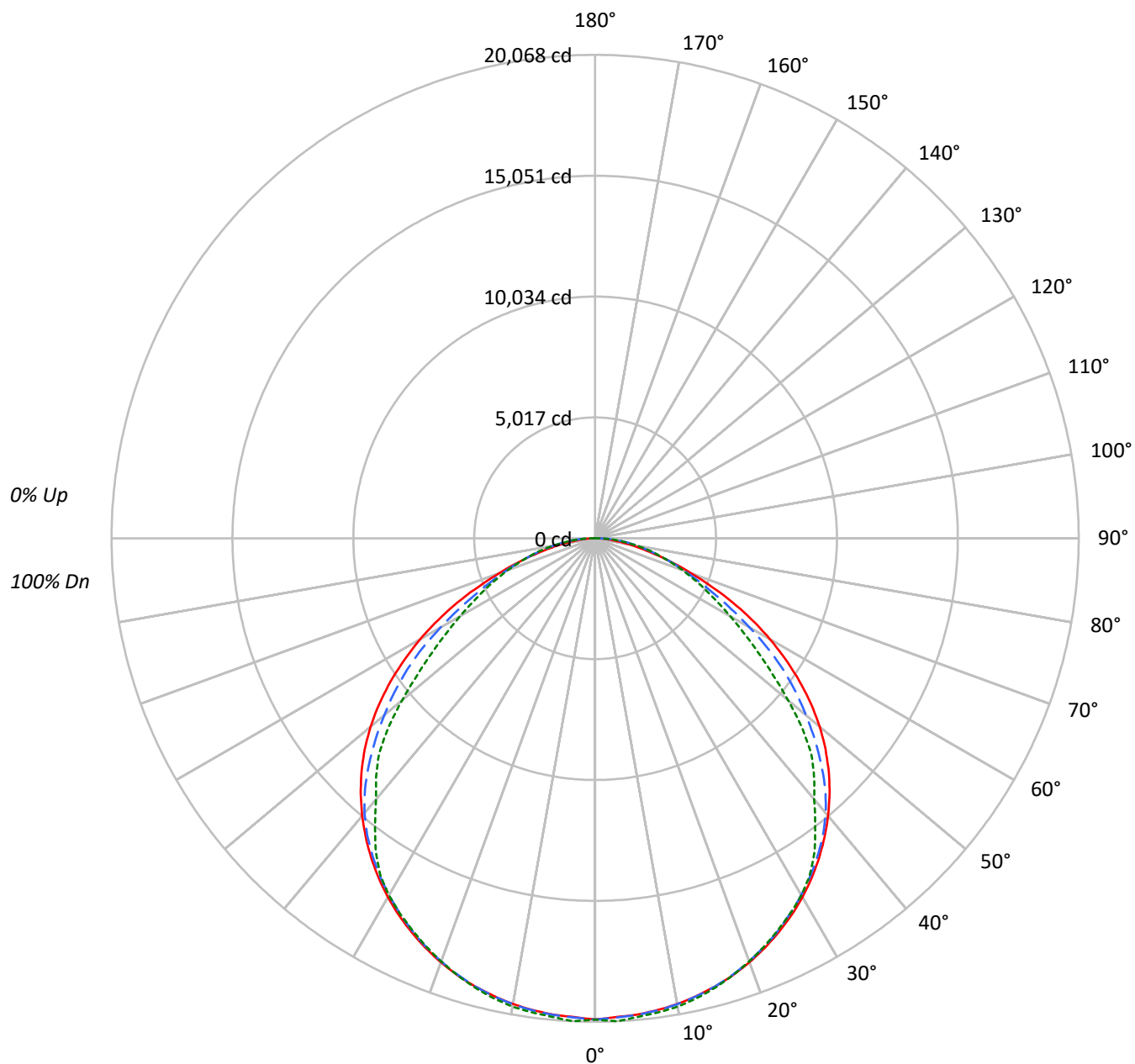
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32255	32255	32255
5°	32168	32192	32336
10°	32187	32202	32371
15°	32191	32187	32263
20°	32183	32109	32116
25°	32133	32014	31975
30°	32081	31889	31907
35°	31931	31733	31284
40°	31704	31380	29798
45°	31301	30299	28974
50°	30548	28686	26241
55°	29157	26828	23203
60°	27059	23938	20925
65°	24051	20725	19241
70°	19960	18522	18137
75°	16143	16951	17161
80°	12823	16212	16145
85°	10039	17416	16613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1894.6	3.5
10°-20°	5449.5	10.2
20°-30°	8309.5	15.5
30°-40°	10053.3	18.7
40°-50°	10183.1	19.0
50°-60°	8416.6	15.7
60°-70°	5559.0	10.4
70°-80°	2898.7	5.4
80°-90°	908.7	1.7
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°	15653.6	29.2
0°-40°	25706.9	47.9
0°-60°	44306.6	82.5
0°-90°	53673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19977	19977	19977	19977	19977	
5°	19848	19968	19862	19949	19951	###
15°	19258	19356	19256	19316	19301	5438
25°	18037	18109	17970	18016	17948	8317
35°	16200	16222	16100	16078	15872	10133
45°	13708	13672	13269	12857	12689	10556
55°	10358	10204	9531	8605	8243	9232
65°	6295	6113	5425	5072	5036	6218
75°	2588	2633	2717	2753	2751	2819
85°	542	698	940	933	897	658
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19977.3	19977.3	19977.3	19977.3	19977.3
2.5°	19893.5	20011.0	19912.5	19998.9	20068.5
5°	19847.8	19967.9	19862.3	19948.6	19951.1
7.5°	19759.3	19879.1	19771.1	19857.4	19855.0
10°	19632.0	19744.8	19641.6	19744.8	19744.8
12.5°	19459.4	19569.6	19469.1	19564.8	19550.4
15°	19258.0	19356.2	19255.6	19315.5	19301.1
17.5°	19020.5	19109.3	18996.5	19046.8	19018.1
20°	18730.3	18811.9	18687.3	18752.0	18691.8
22.5°	18404.0	18480.8	18353.7	18401.9	18334.5
25°	18037.3	18109.3	17970.2	18015.6	17948.5
27.5°	17641.5	17706.2	17550.3	17605.6	17552.7
30°	17207.4	17238.6	17104.4	17176.3	17114.0
32.5°	16723.0	16742.2	16624.6	16689.3	16583.9
35°	16200.1	16221.7	16099.5	16077.8	15871.6
37.5°	15641.3	15651.0	15535.9	15341.5	15001.0
40°	15041.9	15037.1	14888.4	14439.9	14137.6
42.5°	14401.4	14399.2	14137.6	13626.8	13454.2
45°	13708.3	13672.5	13269.4	12857.0	12689.0
47.5°	12965.0	12926.5	12363.0	12034.5	11653.1
50°	12161.5	12094.4	11420.4	10971.9	10446.8
52.5°	11295.8	11192.5	10506.7	9782.4	9286.0
55°	10358.0	10204.5	9530.7	8605.0	8242.9
57.5°	9382.0	9154.1	8499.4	7597.7	7302.7
60°	8379.5	8125.2	7412.9	6672.0	6480.0
62.5°	7348.2	7096.5	6369.8	5811.0	5705.4
65°	6295.4	6113.0	5424.8	5072.3	5036.4
67.5°	5216.2	5151.5	4626.2	4446.4	4432.0
70°	4228.1	4216.1	3923.5	3832.3	3841.9
72.5°	3379.2	3364.8	3321.7	3276.0	3278.4
75°	2587.8	2633.2	2717.2	2753.1	2750.9
77.5°	1930.6	2024.2	2201.5	2273.5	2261.5
80°	1379.1	1518.1	1743.6	1810.8	1736.4
82.5°	918.5	1064.8	1330.9	1340.6	1280.6
85°	541.9	697.8	940.1	932.9	896.8
87.5°	268.5	419.7	563.6	539.5	515.7
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)