

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: P731165

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731165
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-LD5-60SE-N-CLI-UNV-L835
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51478.0 lumens
Efficiency: N/A
Efficacy: 140.3 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

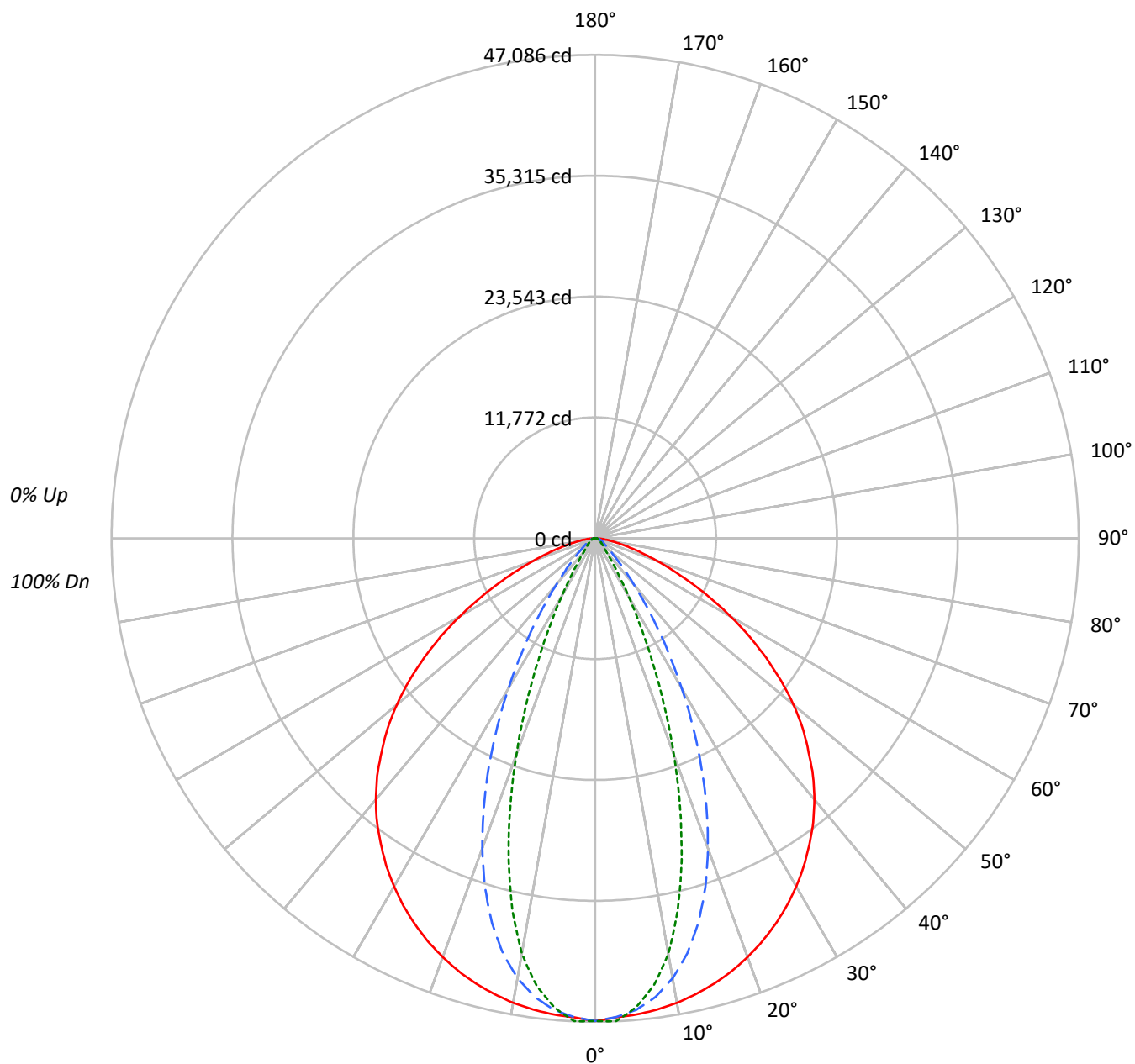
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	75920	75920	75920
5°	75463	74713	74320
10°	75337	71330	67310
15°	75034	64838	54360
20°	74584	55171	38528
25°	73916	43504	23278
30°	73019	31398	11964
35°	71701	20527	5975
40°	70000	12330	3487
45°	67092	7363	2607
50°	63280	4815	2190
55°	57272	3653	1910
60°	49216	3111	1743
65°	39589	2839	1646
70°	29825	3040	1637
75°	21938	2890	1684
80°	16050	2878	1844
85°	12021	3490	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4330.4	8.4
10°-20°	10773.2	20.9
20°-30°	11932.9	23.2
30°-40°	9560.3	18.6
40°-50°	6824.9	13.3
50°-60°	4383.7	8.5
60°-70°	2375.7	4.6
70°-80°	1015.4	2.0
80°-90°	281.6	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°	27036.4	52.5
0°-40°	36596.8	71.1
0°-60°	47805.3	92.9
0°-90°	51478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	47021	47021	47021	47021	47021	
5°	46561	46734	46098	45951	45855	###
15°	44889	43485	38789	34279	32521	12665
25°	41491	36585	24420	15910	13067	19114
35°	36377	26312	10414	4200	3031	22744
45°	29383	15189	3225	1372	1142	22648
55°	20346	6791	1298	797	679	18132
65°	10362	2789	743	513	431	10377
75°	3517	1020	463	322	270	3908
85°	649	270	188	156	129	793
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	47021.3	47021.3	47021.3	47021.3	47021.3
2.5°	46711.8	47004.1	46689.4	46885.1	47085.7
5°	46560.7	46734.2	46097.5	45951.4	45855.0
7.5°	46298.1	46248.6	45052.6	44277.3	43903.2
10°	45951.4	45550.2	43507.0	41803.2	41055.3
12.5°	45456.2	44629.0	41414.2	38422.5	37154.5
15°	44889.0	43484.8	38789.0	34279.2	32520.7
17.5°	44210.4	42147.3	35651.1	29836.1	27515.5
20°	43408.0	40532.7	32109.7	25115.6	22423.4
22.5°	42511.5	38670.2	28317.8	20409.9	17522.3
25°	41491.1	36584.8	24419.7	15910.0	13066.7
27.5°	40389.1	34269.3	20543.8	11887.9	9294.7
30°	39165.5	31762.9	16841.1	8571.8	6417.0
32.5°	37830.6	29098.1	13401.2	6028.1	4388.7
35°	36376.9	26311.9	10414.1	4200.3	3031.4
37.5°	34888.3	23468.6	7865.8	2969.4	2174.5
40°	33211.6	20635.2	5849.9	2174.5	1654.3
42.5°	31411.2	17856.6	4329.3	1674.1	1339.8
45°	29382.8	15189.1	3224.7	1372.1	1141.8
47.5°	27416.5	12702.8	2449.4	1168.9	993.1
50°	25192.4	10458.9	1916.9	1020.4	871.7
52.5°	22832.2	8485.0	1555.3	899.0	767.7
55°	20345.5	6790.9	1297.6	797.4	678.6
57.5°	17826.9	5379.1	1109.5	710.7	604.4
60°	15241.2	4301.9	963.4	636.4	539.8
62.5°	12717.6	3440.1	842.0	572.1	483.0
65°	10362.3	2788.6	743.0	512.7	430.9
67.5°	8185.2	2204.2	693.5	460.6	389.0
70°	6317.8	1716.3	644.0	411.1	346.7
72.5°	4787.2	1317.7	569.7	366.5	307.1
75°	3516.7	1020.4	463.2	322.0	269.9
77.5°	2516.3	785.2	376.4	279.8	232.9
80°	1726.2	584.6	309.5	240.2	198.3
82.5°	1122.0	413.7	250.1	198.3	163.3
85°	648.9	269.9	188.4	156.0	128.7
87.5°	279.8	148.5	128.7	116.5	99.0
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)