

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: P731163

Luminaire Tested: **HBLED-LD5-60SE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731163
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-L740
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: 55483.0 lumens
Efficiency: N/A
Efficacy: 151.2 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

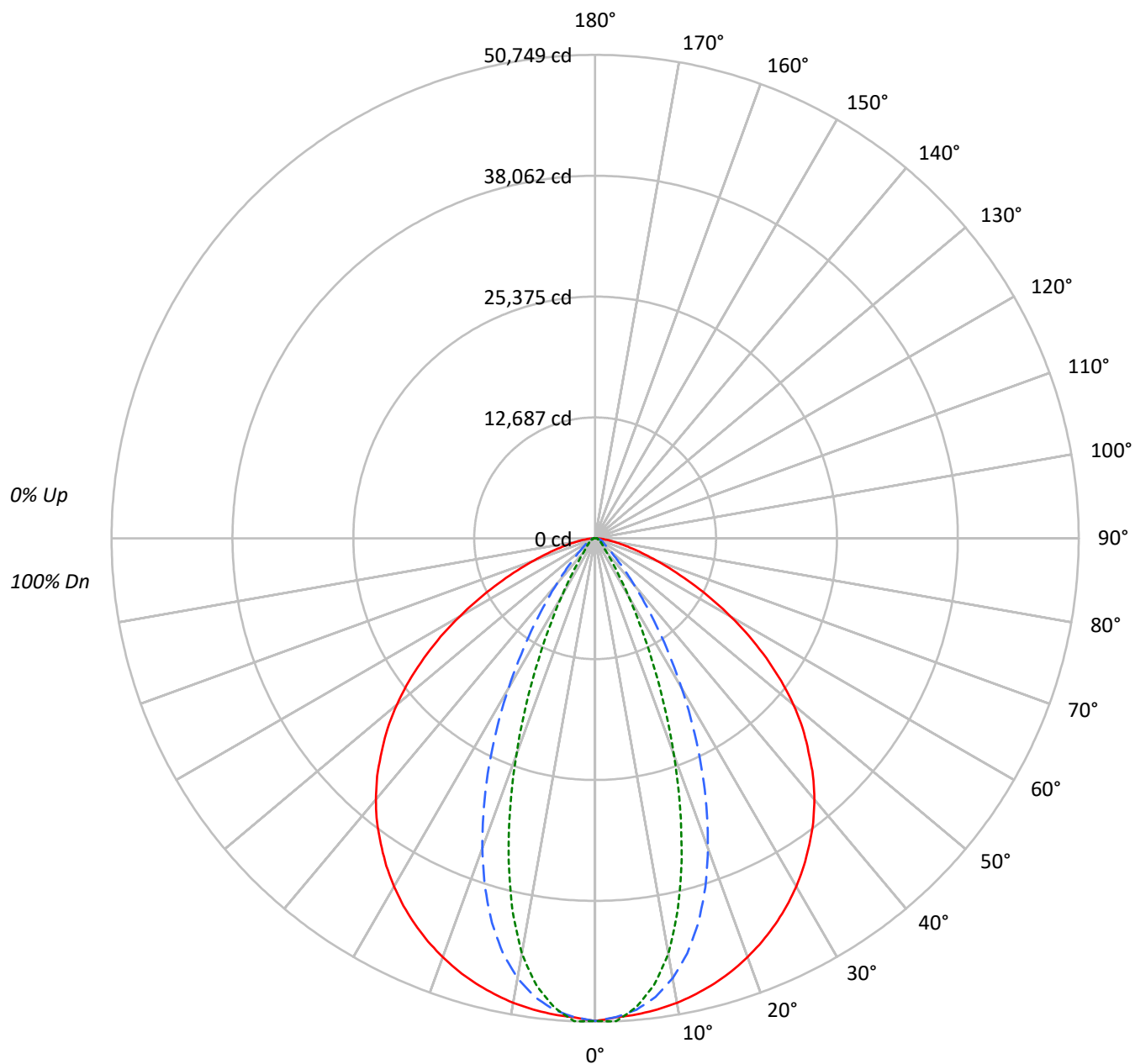
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	81827	81827	81827
5°	81335	80525	80102
10°	81198	76879	72547
15°	80872	69882	58589
20°	80387	59463	41525
25°	79667	46888	25089
30°	78700	33841	12895
35°	77279	22124	6440
40°	75446	13289	3758
45°	72312	7936	2810
50°	68203	5189	2360
55°	61727	3937	2059
60°	53046	3353	1879
65°	42669	3059	1774
70°	32145	3277	1764
75°	23645	3114	1815
80°	17299	3102	1987
85°	12957	3761	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4667.3	8.4
10°-20°	11611.3	20.9
20°-30°	12861.3	23.2
30°-40°	10304.1	18.6
40°-50°	7355.8	13.3
50°-60°	4724.7	8.5
60°-70°	2560.5	4.6
70°-80°	1094.4	2.0
80°-90°	303.5	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°	29139.9	52.5
0°-40°	39444.0	71.1
0°-60°	51524.6	92.9
0°-90°	55483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	50680	50680	50680	50680	50680	
5°	50183	50370	49684	49526	49422	###
15°	48381	46868	41807	36946	35051	13651
25°	44719	39431	26320	17148	14083	20601
35°	39207	28359	11224	4527	3267	24514
45°	31669	16371	3476	1479	1231	24410
55°	21928	7319	1399	860	731	19542
65°	11168	3006	801	553	464	11184
75°	3790	1100	499	347	291	4212
85°	699	291	203	168	139	854
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	50679.6	50679.6	50679.6	50679.6	50679.6
2.5°	50346.0	50661.1	50321.9	50532.8	50749.0
5°	50183.2	50370.2	49683.9	49526.4	49422.5
7.5°	49900.1	49846.8	48557.7	47722.1	47318.9
10°	49526.4	49094.0	46891.8	45055.5	44249.4
12.5°	48992.7	48101.2	44636.3	41411.8	40045.2
15°	48381.4	46868.0	41806.8	36946.2	35050.9
17.5°	47649.9	45426.4	38424.8	32157.4	29656.2
20°	46785.1	43686.1	34607.8	27069.6	24167.9
22.5°	45818.9	41678.8	30521.0	21997.8	18885.6
25°	44719.1	39431.1	26319.6	17147.8	14083.3
27.5°	43531.4	36935.5	22142.1	12812.7	10017.8
30°	42212.6	34234.1	18151.3	9238.6	6916.3
32.5°	40773.8	31361.9	14443.8	6497.1	4730.1
35°	39207.0	28358.9	11224.4	4527.1	3267.2
37.5°	37602.6	25294.5	8477.7	3200.4	2343.7
40°	35795.5	22240.6	6305.0	2343.7	1783.0
42.5°	33855.0	19245.8	4666.1	1804.3	1444.1
45°	31668.8	16370.8	3475.5	1478.9	1230.7
47.5°	29549.5	13691.0	2639.9	1259.9	1070.3
50°	27152.4	11272.6	2066.0	1099.8	939.5
52.5°	24608.5	9145.1	1676.3	969.0	827.5
55°	21928.4	7319.2	1398.6	859.5	731.4
57.5°	19213.8	5797.6	1195.9	766.0	651.4
60°	16427.0	4636.6	1038.3	686.0	581.8
62.5°	13707.0	3707.8	907.5	616.6	520.6
65°	11168.5	3005.5	800.8	552.6	464.4
67.5°	8822.0	2375.7	747.4	496.4	419.2
70°	6809.3	1849.8	694.1	443.1	373.7
72.5°	5159.7	1420.2	614.1	395.1	331.0
75°	3790.3	1099.8	499.2	347.0	290.9
77.5°	2712.1	846.3	405.7	301.6	251.0
80°	1860.5	630.1	333.6	258.9	213.7
82.5°	1209.3	445.9	269.6	213.7	176.1
85°	699.4	290.9	203.0	168.2	138.7
87.5°	301.6	160.0	138.7	125.5	106.7
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)