

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: P731175

Luminaire Tested: **HBLED-LD5-60SE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731175
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-L740
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: 54923.0 lumens
Efficiency: N/A
Efficacy: 149.7 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

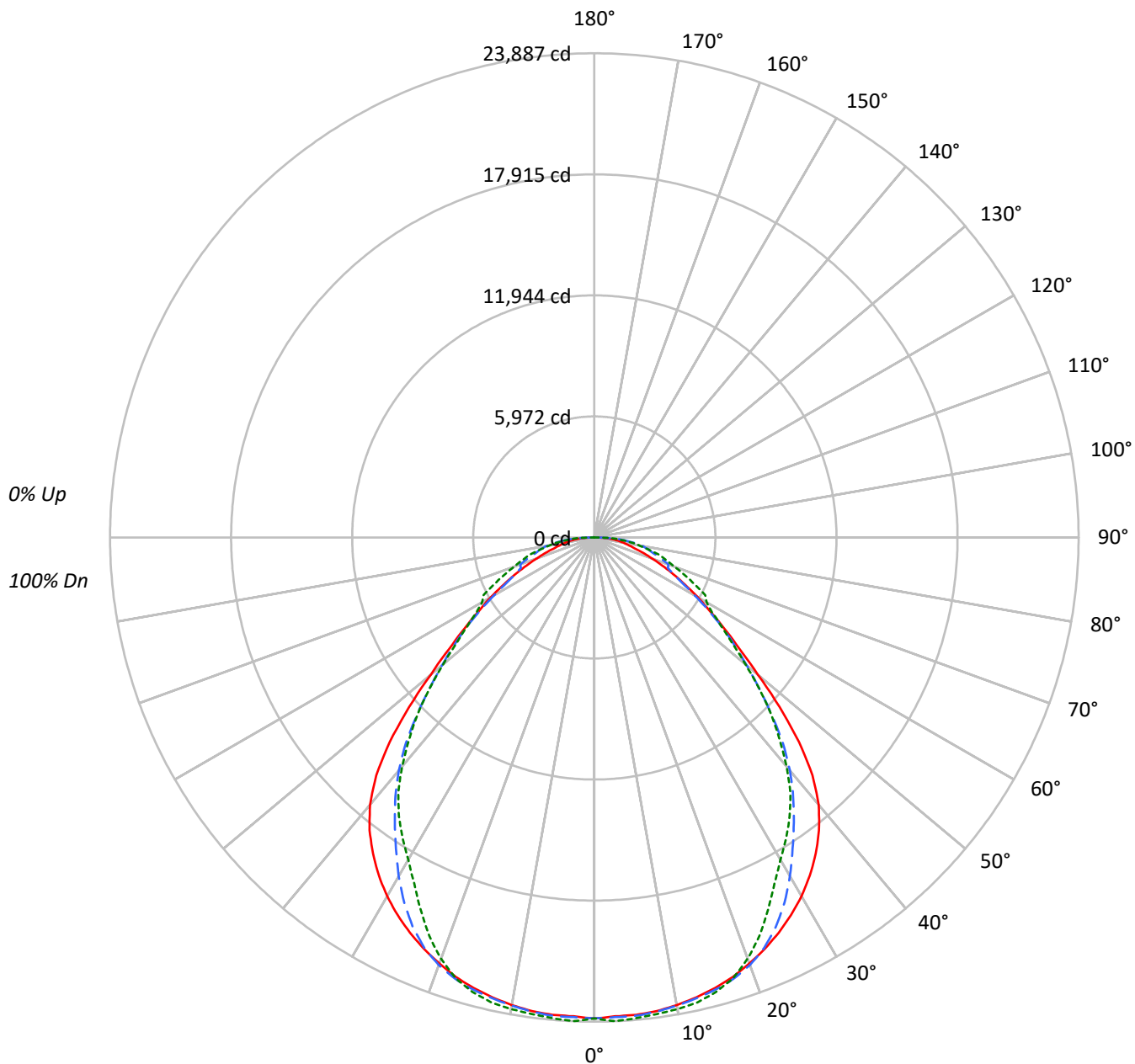
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38312	38312	38312
5°	38310	38393	38580
10°	38405	38453	38735
15°	38464	38608	38796
20°	38425	38568	37996
25°	38328	37754	36112
30°	38102	35973	34219
35°	37528	33810	33106
40°	36273	31612	31091
45°	32603	28228	28124
50°	26443	24588	24419
55°	21957	21549	21541
60°	19010	18455	20632
65°	16476	16373	20798
70°	14206	18367	19825
75°	12739	18824	20668
80°	13241	22159	20735
85°	15031	25537	23694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2259.3	4.1
10°-20°	6524.9	11.9
20°-30°	9690.9	17.6
30°-40°	11001.8	20.0
40°-50°	9835.2	17.9
50°-60°	6800.1	12.4
60°-70°	4487.1	8.2
70°-80°	3027.2	5.5
80°-90°	1296.6	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°	18475.0	33.6
0°-40°	29476.9	53.7
0°-60°	46112.1	84.0
0°-90°	54923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23728	23728	23728	23728	23728	
5°	23637	23782	23688	23785	23804	###
15°	23011	23121	23097	23226	23210	6495
25°	21514	21718	21192	20561	20270	9913
35°	19040	18639	17153	16904	16796	11873
45°	14278	13069	12363	12457	12317	10858
55°	7800	7120	7655	7548	7652	7085
65°	4313	3829	4286	5011	5444	4304
75°	2042	2569	3018	3224	3313	2230
85°	811	1129	1378	1387	1279	846
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23728.5	23728.5	23728.5	23728.5	23728.5
2.5°	23647.9	23795.6	23685.5	23787.6	23886.9
5°	23637.0	23782.2	23688.1	23784.7	23803.7
7.5°	23569.9	23704.1	23594.0	23688.1	23709.6
10°	23424.7	23583.3	23454.2	23599.4	23626.4
12.5°	23236.8	23398.0	23285.0	23483.8	23494.7
15°	23011.0	23121.2	23097.0	23225.9	23209.8
17.5°	22726.1	22852.6	22833.7	22865.8	22790.6
20°	22363.5	22505.8	22446.7	22298.9	22113.6
22.5°	21973.9	22145.7	21912.2	21538.6	21277.9
25°	21514.3	21718.5	21192.1	20560.6	20270.3
27.5°	21006.5	21189.2	20313.3	19539.5	19238.6
30°	20437.0	20514.7	19294.8	18558.7	18354.4
32.5°	19778.5	19665.8	18206.7	17720.4	17602.2
35°	19039.8	18639.3	17153.4	16903.6	16796.0
37.5°	18206.7	17473.3	16113.7	15998.1	15885.1
40°	17210.0	16126.9	14998.6	14923.4	14751.3
42.5°	15922.9	14662.6	13759.8	13671.1	13517.9
45°	14278.5	13069.2	12362.6	12456.7	12317.0
47.5°	12386.7	11470.6	11021.9	11279.8	11021.9
50°	10527.3	9912.2	9788.6	10022.4	9721.4
52.5°	9003.9	8450.5	8705.8	8746.0	8566.1
55°	7800.1	7120.4	7655.2	7547.6	7652.4
57.5°	6752.4	5991.8	6650.2	6526.6	6886.6
60°	5887.1	5032.7	5715.2	5688.3	6389.4
62.5°	5038.1	4355.6	4903.6	5298.7	6161.1
65°	4312.6	3828.9	4285.6	5011.2	5443.8
67.5°	3616.6	3433.9	3920.1	4323.2	4796.3
70°	3009.3	3103.4	3890.6	3815.4	4199.6
72.5°	2498.9	2818.7	3433.9	3447.3	3718.7
75°	2042.1	2568.8	3017.5	3224.4	3313.1
77.5°	1698.1	2329.6	2724.6	2797.2	2711.2
80°	1424.1	2052.7	2383.2	2351.1	2230.0
82.5°	1149.9	1555.8	1878.3	1907.8	1765.3
85°	811.4	1128.6	1378.5	1386.6	1279.0
87.5°	435.2	696.0	835.7	859.8	795.3
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)