

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: P731178

Luminaire Tested: **HBLED-LD5-60SE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731178
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-L840
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: 52426.0 lumens
Efficiency: N/A
Efficacy: 142.9 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

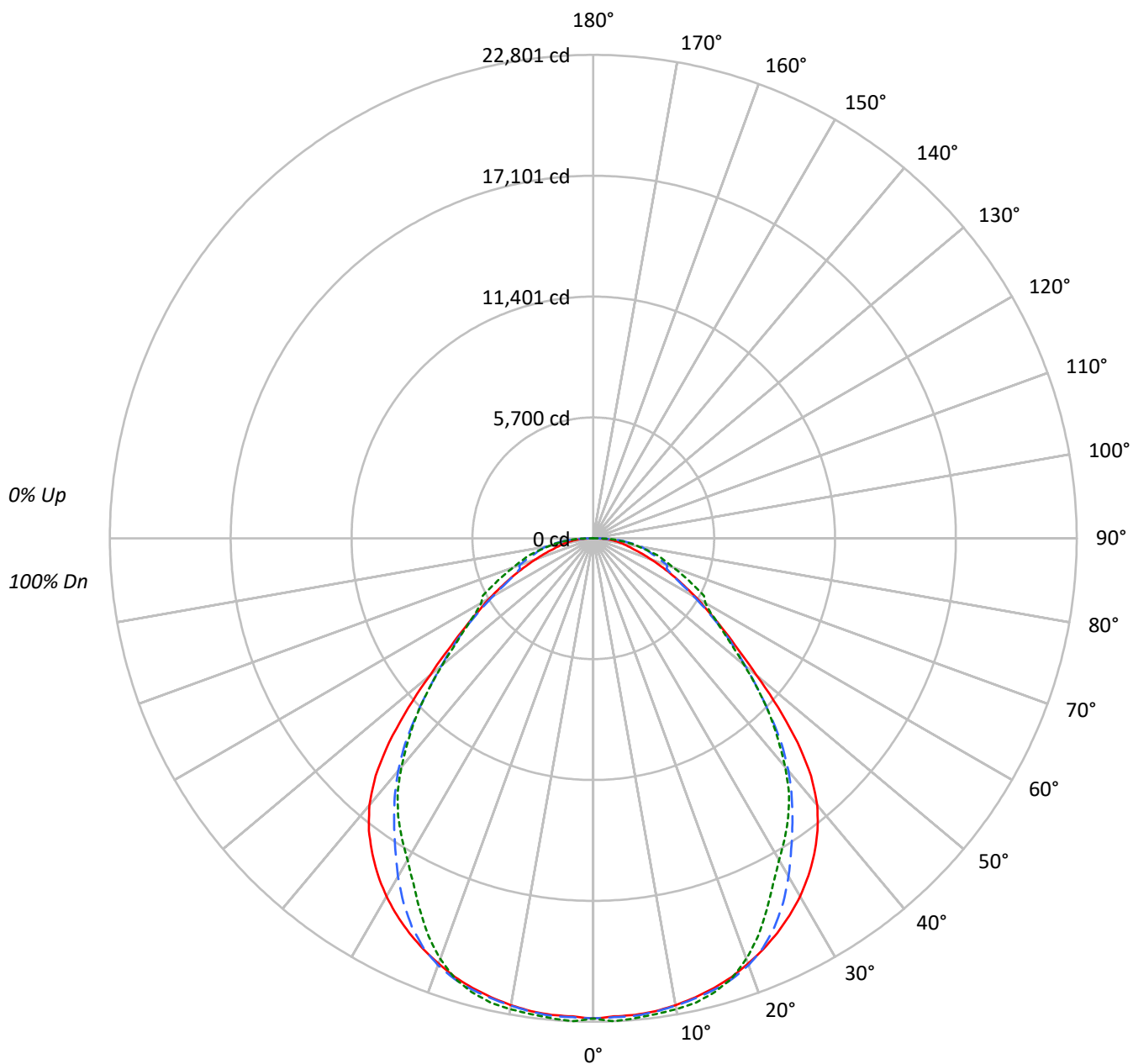
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	36570	36570	36570
5°	36568	36647	36826
10°	36659	36705	36974
15°	36715	36853	37032
20°	36678	36815	36268
25°	36585	36037	34470
30°	36370	34337	32663
35°	35822	32273	31601
40°	34624	30175	29678
45°	31121	26945	26846
50°	25241	23469	23309
55°	20959	20569	20562
60°	18146	17616	19695
65°	15727	15629	19852
70°	13560	17531	18924
75°	12160	17969	19728
80°	12640	21152	19793
85°	14348	24376	22616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2156.5	4.1
10°-20°	6228.3	11.9
20°-30°	9250.3	17.6
30°-40°	10501.7	20.0
40°-50°	9388.0	17.9
50°-60°	6490.9	12.4
60°-70°	4283.1	8.2
70°-80°	2889.6	5.5
80°-90°	1237.6	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°	17635.1	33.6
0°-40°	28136.7	53.7
0°-60°	44015.7	84.0
0°-90°	52426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22650	22650	22650	22650	22650	
5°	22562	22701	22611	22703	22722	###
15°	21965	22070	22047	22170	22155	6200
25°	20536	20731	20229	19626	19349	9463
35°	18174	17792	16374	16135	16032	11333
45°	13629	12475	11800	11890	11757	10365
55°	7446	6797	7307	7204	7304	6763
65°	4116	3655	4091	4783	5196	4108
75°	1949	2452	2880	3078	3162	2129
85°	774	1077	1316	1324	1221	808
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22649.7	22649.7	22649.7	22649.7	22649.7
2.5°	22572.8	22713.8	22608.6	22706.1	22800.9
5°	22562.4	22700.9	22611.1	22703.4	22721.5
7.5°	22498.3	22626.5	22521.3	22611.1	22631.7
10°	22359.7	22511.2	22387.9	22526.5	22552.2
12.5°	22180.3	22334.2	22226.4	22416.1	22426.5
15°	21964.8	22070.0	22047.0	22169.9	22154.6
17.5°	21692.9	21813.6	21795.6	21826.3	21754.5
20°	21346.7	21482.6	21426.2	21285.1	21108.2
22.5°	20974.8	21138.9	20916.0	20559.4	20310.5
25°	20536.1	20731.1	20228.6	19625.8	19348.7
27.5°	20051.4	20225.9	19389.8	18651.2	18363.9
30°	19507.8	19582.0	18417.6	17714.9	17519.9
32.5°	18879.3	18771.7	17378.9	16914.7	16801.9
35°	18174.2	17791.9	16373.6	16135.1	16032.4
37.5°	17378.9	16678.9	15381.1	15270.8	15162.9
40°	16427.5	15393.8	14316.7	14244.9	14080.6
42.5°	15199.0	13996.0	13134.2	13049.6	12903.4
45°	13629.3	12475.0	11800.5	11890.4	11757.0
47.5°	11823.6	10949.1	10520.8	10767.0	10520.8
50°	10048.7	9461.6	9343.5	9566.7	9279.5
52.5°	8594.6	8066.3	8310.0	8348.4	8176.7
55°	7445.5	6796.7	7307.2	7204.5	7304.5
57.5°	6445.4	5719.4	6347.9	6229.9	6573.5
60°	5619.4	4803.9	5455.4	5429.7	6099.0
62.5°	4809.1	4157.6	4680.7	5057.8	5881.0
65°	4116.5	3654.8	4090.8	4783.4	5196.3
67.5°	3452.2	3277.7	3741.9	4126.7	4578.2
70°	2872.4	2962.3	3713.7	3642.0	4008.7
72.5°	2385.2	2690.6	3277.7	3290.6	3549.7
75°	1949.3	2452.1	2880.4	3077.8	3162.4
77.5°	1620.9	2223.7	2600.8	2670.0	2587.9
80°	1359.4	1959.4	2274.9	2244.2	2128.7
82.5°	1097.6	1485.1	1792.9	1821.1	1685.0
85°	774.5	1077.3	1315.8	1323.5	1220.8
87.5°	415.4	664.4	797.7	820.7	759.1
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)