

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: P731176

Luminaire Tested: **HBLED-LD5-60SE-W-AI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731176
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-L750
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: 56244.0 lumens
Efficiency: N/A
Efficacy: 153.3 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

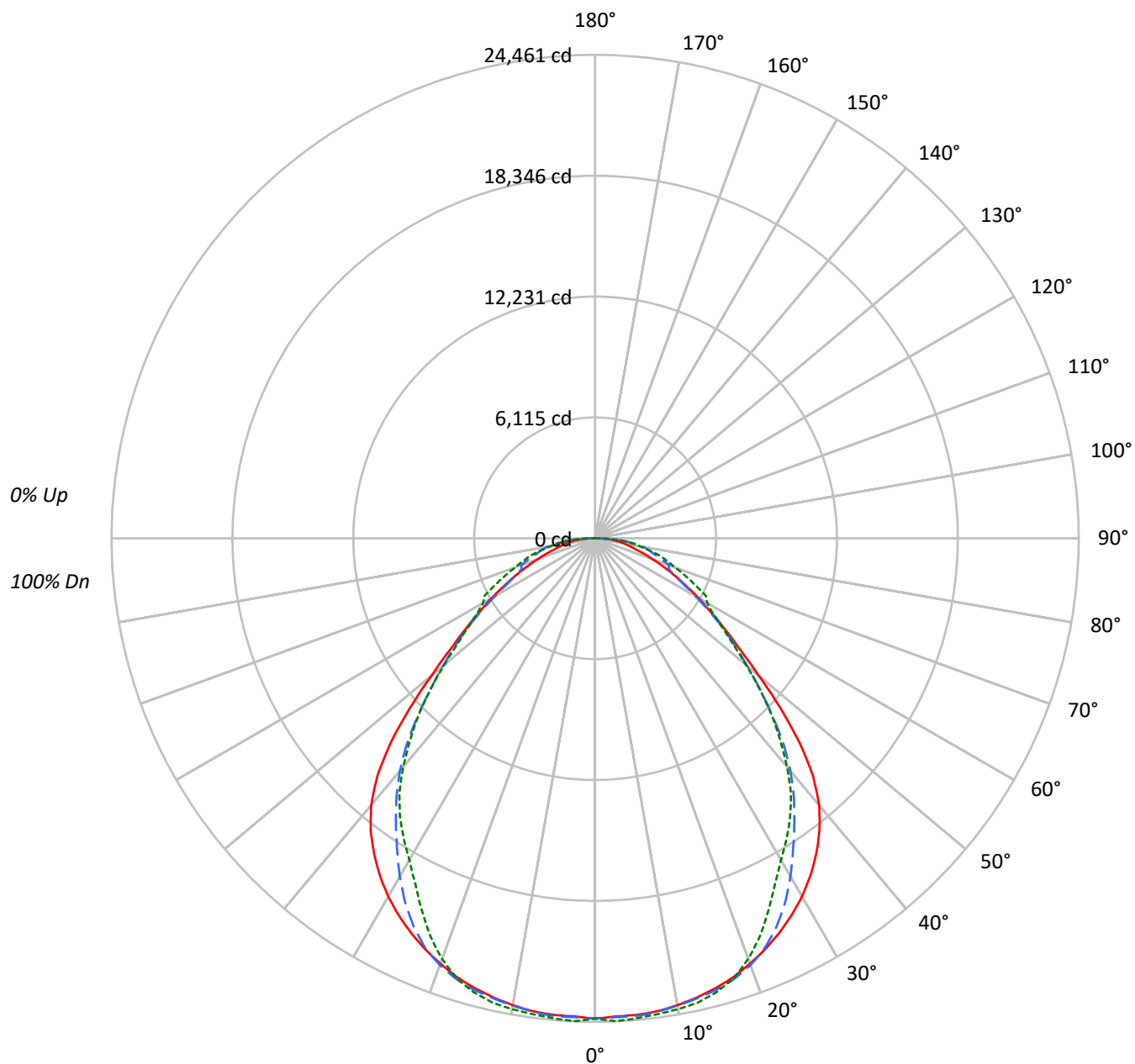
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39233	39233	39233
5°	39231	39316	39508
10°	39328	39378	39667
15°	39389	39536	39729
20°	39349	39496	38910
25°	39249	38662	36980
30°	39018	36838	35042
35°	38431	34623	33902
40°	37146	32373	31839
45°	33387	28907	28801
50°	27079	25179	25006
55°	22485	22067	22059
60°	19468	18899	21129
65°	16872	16767	21298
70°	14547	18808	20302
75°	13046	19277	21165
80°	13560	22693	21234
85°	15393	26152	24263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2313.6	4.1
10°-20°	6681.8	11.9
20°-30°	9924.0	17.6
30°-40°	11266.5	20.0
40°-50°	10071.7	17.9
50°-60°	6963.6	12.4
60°-70°	4595.0	8.2
70°-80°	3100.0	5.5
80°-90°	1327.8	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°	18919.4	33.6
0°-40°	30185.8	53.7
0°-60°	47221.2	84.0
0°-90°	56244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24299	24299	24299	24299	24299	
5°	24206	24354	24258	24357	24376	###
15°	23564	23677	23653	23784	23768	6652
25°	22032	22241	21702	21055	20758	10152
35°	19498	19088	17566	17310	17200	12158
45°	14622	13384	12660	12756	12613	11120
55°	7988	7292	7839	7729	7836	7255
65°	4416	3921	4389	5132	5575	4407
75°	2091	2631	3090	3302	3393	2284
85°	831	1156	1412	1420	1310	866
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24299.2	24299.2	24299.2	24299.2	24299.2
2.5°	24216.7	24368.0	24255.1	24359.7	24461.4
5°	24205.5	24354.2	24257.8	24356.8	24376.2
7.5°	24136.8	24274.3	24161.4	24257.8	24279.8
10°	23988.1	24150.6	24018.4	24167.0	24194.6
12.5°	23795.7	23960.8	23845.0	24048.6	24059.8
15°	23564.4	23677.3	23652.6	23784.5	23768.0
17.5°	23272.7	23402.3	23382.9	23415.8	23338.8
20°	22901.3	23047.1	22986.6	22835.2	22645.4
22.5°	22502.4	22678.4	22439.2	22056.7	21789.6
25°	22031.7	22240.9	21701.8	21055.1	20757.8
27.5°	21511.7	21698.8	20801.9	20009.5	19701.3
30°	20928.5	21008.1	19758.9	19005.0	18795.9
32.5°	20254.3	20138.8	18644.6	18146.6	18025.5
35°	19497.7	19087.6	17566.0	17310.1	17200.0
37.5°	18644.6	17893.6	16501.3	16382.9	16267.2
40°	17623.9	16514.8	15359.3	15282.3	15106.1
42.5°	16305.9	15015.3	14090.7	13999.9	13843.1
45°	14621.9	13383.6	12659.9	12756.3	12613.2
47.5°	12684.6	11746.5	11287.0	11551.1	11287.0
50°	10780.5	10150.6	10024.0	10263.4	9955.2
52.5°	9220.5	8653.7	8915.2	8956.4	8772.1
55°	7987.7	7291.7	7839.3	7729.2	7836.4
57.5°	6914.8	6135.9	6810.2	6683.6	7052.3
60°	6028.7	5153.8	5852.7	5825.1	6543.1
62.5°	5159.3	4460.4	5021.6	5426.1	6309.3
65°	4416.3	3921.0	4388.7	5131.7	5574.8
67.5°	3703.6	3516.4	4014.4	4427.2	4911.7
70°	3081.6	3178.0	3984.2	3907.2	4300.6
72.5°	2559.0	2886.5	3516.4	3530.2	3808.2
75°	2091.2	2630.6	3090.1	3302.0	3392.7
77.5°	1739.0	2385.6	2790.2	2864.5	2776.4
80°	1458.4	2102.1	2440.6	2407.6	2283.7
82.5°	1177.5	1593.2	1923.5	1953.7	1807.7
85°	830.9	1155.8	1411.7	1419.9	1309.7
87.5°	445.7	712.7	855.8	880.5	814.4
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)