

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: P731142

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731142
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-LD5-60HE-W-AI-UNV-L840
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54859.0 lumens
Efficiency: N/A
Efficacy: 154.5 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

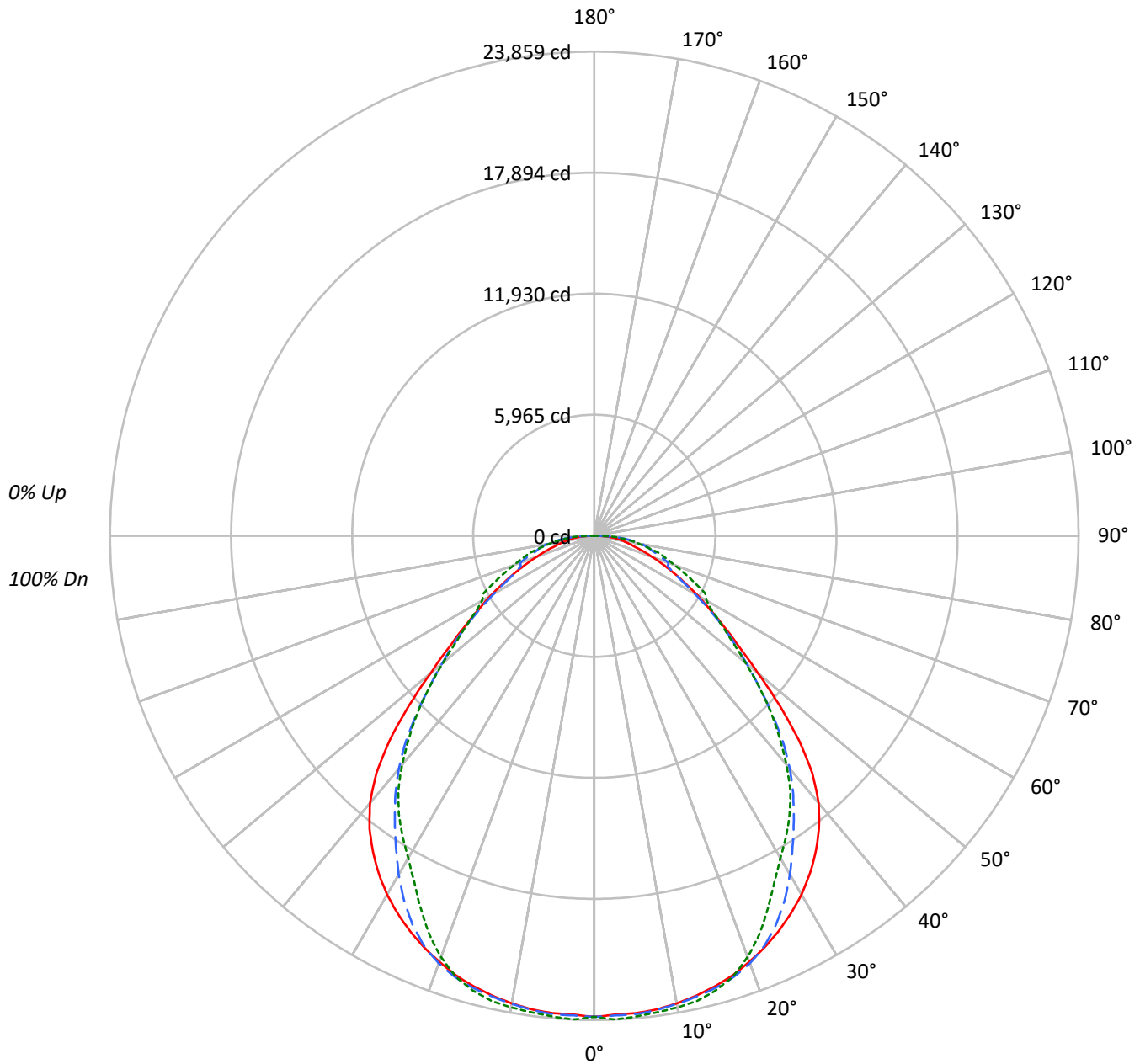
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38267	38267	38267
5°	38265	38348	38535
10°	38360	38408	38690
15°	38419	38563	38751
20°	38380	38523	37951
25°	38283	37710	36069
30°	38057	35931	34179
35°	37485	33771	33067
40°	36231	31576	31055
45°	32565	28196	28091
50°	26412	24559	24390
55°	21931	21524	21516
60°	18988	18434	20609
65°	16457	16354	20774
70°	14189	18345	19802
75°	12724	18802	20644
80°	13226	22134	20710
85°	15013	25508	23666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2256.6	4.1
10°-20°	6517.3	11.9
20°-30°	9679.6	17.6
30°-40°	10989.0	20.0
40°-50°	9823.7	17.9
50°-60°	6792.2	12.4
60°-70°	4481.9	8.2
70°-80°	3023.7	5.5
80°-90°	1295.1	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°	18453.5	33.6
0°-40°	29442.5	53.7
0°-60°	46058.4	84.0
0°-90°	54859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23701	23701	23701	23701	23701	
5°	23610	23754	23660	23757	23776	###
15°	22984	23094	23070	23199	23183	6488
25°	21489	21693	21167	20537	20247	9902
35°	19018	18618	17134	16884	16776	11859
45°	14262	13054	12348	12442	12303	10846
55°	7791	7112	7646	7539	7643	7077
65°	4308	3824	4281	5005	5438	4299
75°	2040	2566	3014	3221	3309	2228
85°	810	1127	1377	1385	1278	845
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23700.8	23700.8	23700.8	23700.8	23700.8
2.5°	23620.3	23767.9	23657.9	23759.9	23859.0
5°	23609.5	23754.4	23660.5	23757.0	23775.9
7.5°	23542.4	23676.5	23566.5	23660.5	23681.9
10°	23397.4	23555.9	23426.9	23571.9	23598.8
12.5°	23209.7	23370.7	23257.8	23456.4	23467.3
15°	22984.2	23094.2	23070.1	23198.8	23182.8
17.5°	22699.6	22826.0	22807.1	22839.2	22764.1
20°	22337.4	22479.5	22420.5	22272.9	22087.8
22.5°	21948.3	22119.9	21886.6	21513.5	21253.1
25°	21489.2	21693.2	21167.4	20536.6	20246.7
27.5°	20982.0	21164.5	20289.6	19516.8	19216.2
30°	20413.1	20490.8	19272.4	18537.0	18333.0
32.5°	19755.5	19642.9	18185.4	17699.7	17581.6
35°	19017.6	18617.6	17133.5	16883.9	16776.4
37.5°	18185.4	17453.0	16095.0	15979.5	15866.6
40°	17189.9	16108.2	14981.1	14906.0	14734.1
42.5°	15904.4	14645.5	13743.7	13655.2	13502.2
45°	14261.8	13054.0	12348.2	12442.2	12302.6
47.5°	12372.3	11457.3	11009.1	11266.7	11009.1
50°	10515.1	9900.7	9777.2	10010.7	9710.1
52.5°	8993.4	8440.6	8695.7	8735.8	8556.1
55°	7791.0	7112.1	7646.3	7538.8	7643.4
57.5°	6744.5	5984.8	6642.5	6519.0	6878.6
60°	5880.2	5026.8	5708.6	5681.6	6382.0
62.5°	5032.3	4350.6	4897.9	5292.5	6153.9
65°	4307.6	3824.4	4280.6	5005.4	5437.5
67.5°	3612.4	3429.9	3915.6	4318.2	4790.7
70°	3005.7	3099.7	3886.1	3811.0	4194.7
72.5°	2495.9	2815.4	3429.9	3443.3	3714.4
75°	2039.7	2565.9	3014.0	3220.6	3309.2
77.5°	1696.2	2326.9	2721.5	2794.0	2708.0
80°	1422.5	2050.4	2380.5	2348.4	2227.4
82.5°	1148.5	1554.0	1876.1	1905.6	1763.2
85°	810.4	1127.3	1376.9	1384.9	1277.5
87.5°	434.7	695.2	834.7	858.8	794.4
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)