

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: P731138

Luminaire Tested: **HBLED-LD5-60HE-W-AI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731138
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-L735
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: 55781.0 lumens
Efficiency: N/A
Efficacy: 157.1 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

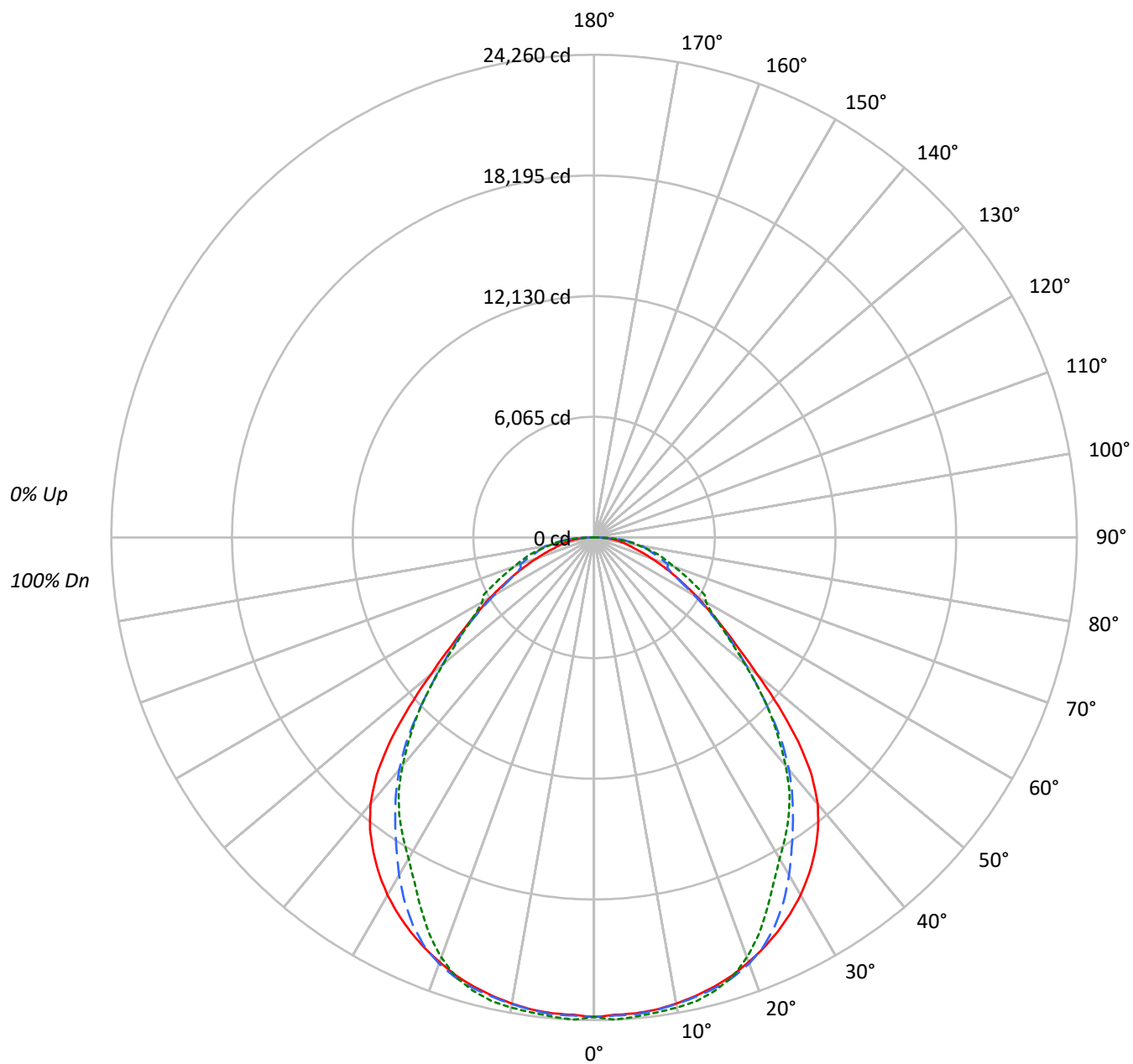
Input Watts (W): 355
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38910	38910	38910
5°	38908	38992	39183
10°	39005	39054	39340
15°	39065	39211	39402
20°	39025	39171	38589
25°	38926	38343	36676
30°	38697	36535	34754
35°	38115	34338	33623
40°	36840	32106	31577
45°	33112	28669	28564
50°	26856	24972	24800
55°	22300	21886	21877
60°	19308	18744	20955
65°	16734	16629	21123
70°	14428	18654	20135
75°	12938	19118	20991
80°	13449	22506	21059
85°	15265	25937	24064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2294.6	4.1
10°-20°	6626.8	11.9
20°-30°	9842.3	17.6
30°-40°	11173.7	20.0
40°-50°	9988.8	17.9
50°-60°	6906.3	12.4
60°-70°	4557.2	8.2
70°-80°	3074.5	5.5
80°-90°	1316.8	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°	18763.6	33.6
0°-40°	29937.3	53.7
0°-60°	46832.5	84.0
0°-90°	55781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24099	24099	24099	24099	24099	
5°	24006	24154	24058	24156	24176	###
15°	23370	23482	23458	23589	23572	6597
25°	21850	22058	21523	20882	20587	10068
35°	19337	18930	17421	17168	17058	12058
45°	14502	13273	12556	12651	12509	11028
55°	7922	7232	7775	7666	7772	7196
65°	4380	3889	4353	5090	5529	4371
75°	2074	2609	3065	3275	3365	2265
85°	824	1146	1400	1408	1299	859
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24099.2	24099.2	24099.2	24099.2	24099.2
2.5°	24017.3	24167.4	24055.5	24159.2	24260.0
5°	24006.2	24153.7	24058.1	24156.3	24175.5
7.5°	23938.1	24074.4	23962.5	24058.1	24080.0
10°	23790.6	23951.8	23820.6	23968.1	23995.5
12.5°	23599.8	23763.5	23648.7	23850.7	23861.7
15°	23370.5	23482.3	23457.9	23588.7	23572.4
17.5°	23081.1	23209.6	23190.4	23223.0	23146.7
20°	22712.8	22857.4	22797.3	22647.3	22459.0
22.5°	22317.1	22491.7	22254.5	21875.1	21610.3
25°	21850.4	22057.8	21523.1	20881.8	20586.9
27.5°	21334.6	21520.2	20630.6	19844.8	19539.1
30°	20756.2	20835.2	19596.3	18848.6	18641.1
32.5°	20087.5	19973.0	18491.1	17997.2	17877.1
35°	19337.2	18930.5	17421.4	17167.6	17058.4
37.5°	18491.1	17746.3	16365.5	16248.0	16133.3
40°	17478.8	16378.9	15232.9	15156.5	14981.7
42.5°	16171.7	14891.7	13974.7	13884.7	13729.1
45°	14501.5	13273.4	12555.7	12651.3	12509.4
47.5°	12580.2	11649.8	11194.1	11456.1	11194.1
50°	10691.8	10067.1	9941.5	10178.9	9873.3
52.5°	9144.6	8582.5	8841.8	8882.6	8699.9
55°	7922.0	7231.7	7774.8	7665.5	7771.9
57.5°	6857.8	6085.4	6754.1	6628.5	6994.2
60°	5979.1	5111.3	5804.5	5777.1	6489.3
62.5°	5116.9	4423.7	4980.2	5381.4	6257.3
65°	4380.0	3888.7	4352.6	5089.5	5528.9
67.5°	3673.1	3487.5	3981.4	4390.8	4871.2
70°	3056.3	3151.8	3951.4	3875.0	4265.2
72.5°	2537.9	2862.8	3487.5	3501.2	3776.8
75°	2074.0	2609.0	3064.7	3274.8	3364.8
77.5°	1724.7	2366.0	2767.2	2840.9	2753.5
80°	1446.4	2084.8	2420.5	2387.8	2264.9
82.5°	1167.9	1580.1	1907.6	1937.6	1792.8
85°	824.0	1146.3	1400.1	1408.2	1299.0
87.5°	442.0	706.9	848.8	873.3	807.7
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)