

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: P731145

Luminaire Tested: **HBLED-LD5-60HE-W-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-CLI-UNV-L740
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60533.0 lumens
Efficiency: N/A
Efficacy: 170.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

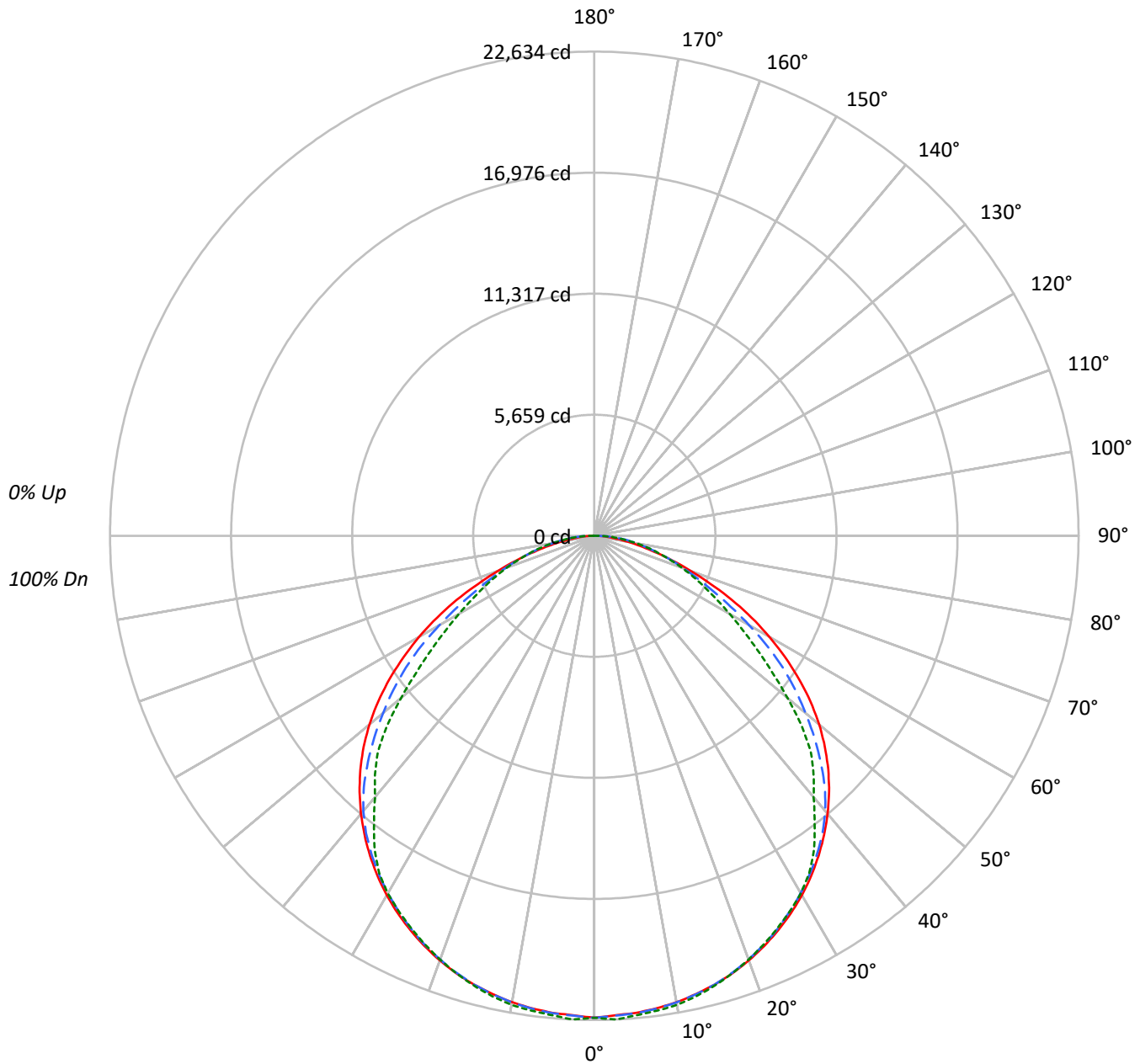
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36378	36378	36378
5°	36280	36306	36469
10°	36300	36318	36509
15°	36305	36300	36386
20°	36296	36212	36221
25°	36241	36106	36062
30°	36181	35965	35985
35°	36012	35789	35282
40°	35756	35391	33606
45°	35302	34172	32677
50°	34452	32353	29595
55°	32884	30257	26169
60°	30517	26997	23599
65°	27125	23374	21700
70°	22511	20889	20455
75°	18206	19117	19354
80°	14461	18285	18208
85°	11323	19642	18738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2136.7	3.5
10°-20°	6146.0	10.2
20°-30°	9371.6	15.5
30°-40°	11338.2	18.7
40°-50°	11484.6	19.0
50°-60°	9492.3	15.7
60°-70°	6269.5	10.4
70°-80°	3269.2	5.4
80°-90°	1024.9	1.7
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°	17654.3	29.2
0°-40°	28992.5	47.9
0°-60°	49969.5	82.5
0°-90°	60533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	60533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22531	22531	22531	22531	22531	
5°	22385	22520	22401	22498	22501	###
15°	21719	21830	21717	21784	21768	6133
25°	20343	20424	20267	20318	20242	9380
35°	18271	18295	18157	18133	17900	11428
45°	15460	15420	14965	14500	14311	11905
55°	11682	11509	10749	9705	9296	10412
65°	7100	6894	6118	5721	5680	7013
75°	2918	2970	3064	3105	3102	3179
85°	611	787	1060	1052	1012	742
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22530.6	22530.6	22530.6	22530.6	22530.6
2.5°	22436.2	22568.6	22457.6	22555.0	22633.5
5°	22384.6	22520.0	22400.9	22498.3	22501.0
7.5°	22284.7	22419.9	22298.0	22395.4	22392.7
10°	22141.2	22268.4	22152.0	22268.4	22268.4
12.5°	21946.6	22070.9	21957.4	22065.4	22049.2
15°	21719.4	21830.1	21716.7	21784.3	21768.0
17.5°	21451.6	21551.7	21424.4	21481.1	21448.8
20°	21124.3	21216.3	21075.7	21148.7	21080.8
22.5°	20756.3	20842.8	20699.5	20753.8	20677.8
25°	20342.7	20423.8	20267.0	20318.2	20242.5
27.5°	19896.2	19969.2	19793.4	19855.8	19796.1
30°	19406.7	19441.9	19290.5	19371.6	19301.4
32.5°	18860.3	18882.1	18749.4	18822.4	18703.5
35°	18270.6	18295.0	18157.2	18132.8	17900.2
37.5°	17640.5	17651.3	17521.6	17302.3	16918.3
40°	16964.4	16959.0	16791.3	16285.4	15944.6
42.5°	16242.0	16239.6	15944.6	15368.4	15173.8
45°	15460.4	15420.0	14965.4	14500.2	14310.8
47.5°	14622.1	14578.7	13943.1	13572.6	13142.5
50°	13715.9	13640.2	12880.1	12374.2	11782.0
52.5°	12739.5	12623.0	11849.6	11032.7	10472.8
55°	11681.9	11508.7	10748.8	9704.8	9296.4
57.5°	10581.1	10324.1	9585.7	8568.8	8236.1
60°	9450.5	9163.7	8360.4	7524.8	7308.2
62.5°	8287.4	8003.5	7183.9	6553.7	6434.6
65°	7100.0	6894.3	6118.2	5720.6	5680.1
67.5°	5882.9	5809.9	5217.4	5014.7	4998.4
70°	4768.6	4755.0	4425.0	4322.1	4333.0
72.5°	3811.1	3794.8	3746.2	3694.7	3697.4
75°	2918.5	2969.8	3064.5	3104.9	3102.5
77.5°	2177.3	2282.9	2482.9	2564.1	2550.5
80°	1555.3	1712.2	1966.5	2042.2	1958.3
82.5°	1035.9	1200.9	1501.0	1511.9	1444.3
85°	611.2	787.0	1060.3	1052.2	1011.5
87.5°	302.9	473.3	635.6	608.5	581.6
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)