

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: P730281

Luminaire Tested: **HBLED-LD5-12HE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-FLI-UNV-L740
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11603.0 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

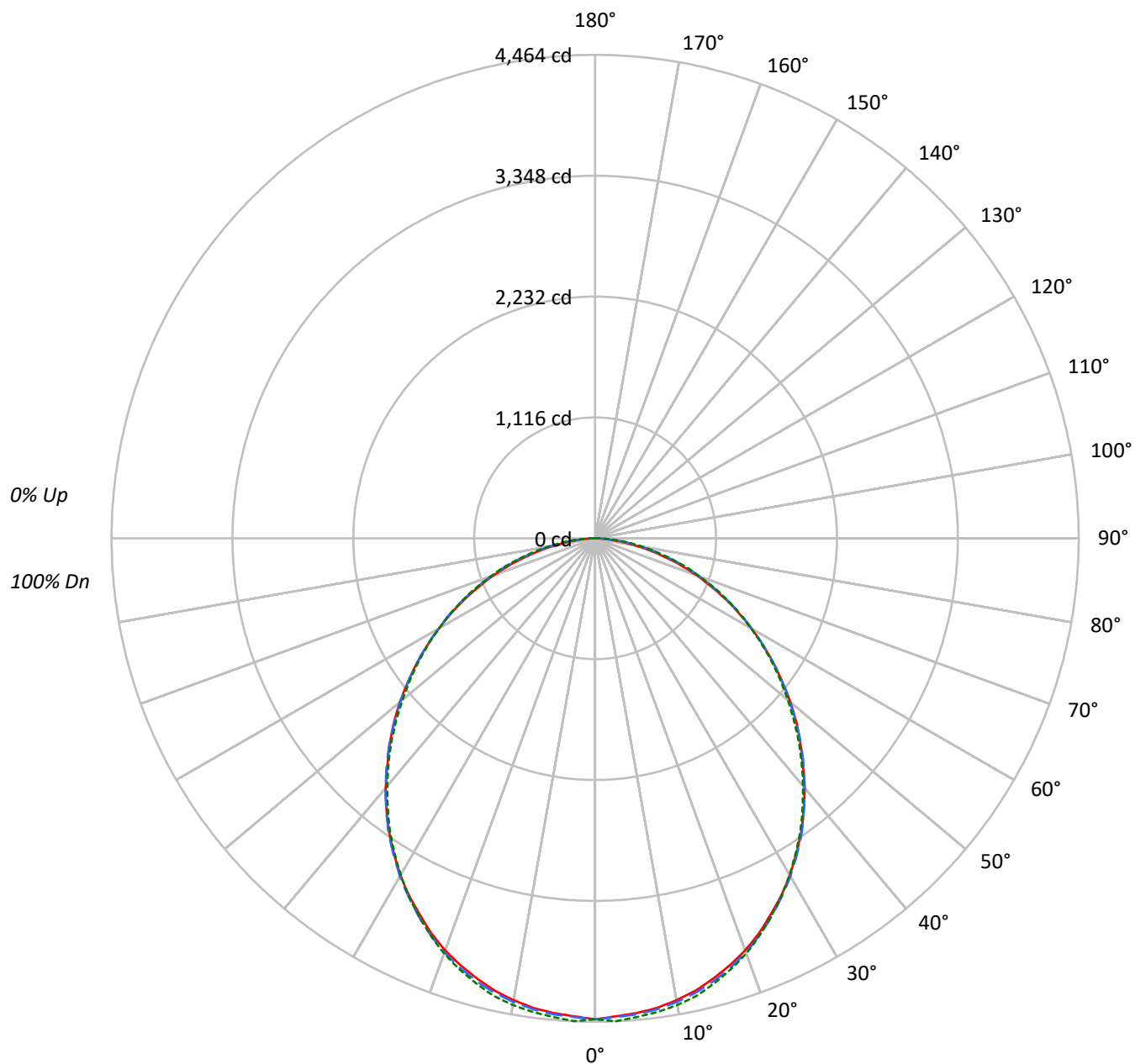
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730281

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730281

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L740

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7172	7172	7172
5°	7131	7151	7192
10°	7099	7127	7174
15°	7036	7075	7109
20°	6957	6990	7010
25°	6828	6867	6857
30°	6702	6720	6693
35°	6536	6553	6511
40°	6340	6340	6291
45°	6118	6135	6072
50°	5908	5898	5824
55°	5652	5653	5602
60°	5378	5385	5364
65°	5069	5120	5132
70°	4682	4810	4815
75°	4138	4405	4474
80°	3394	3858	4076
85°	2355	3240	3662



TEST NUMBER: P730281

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	3.6
10°-20°	1195.1	10.3
20°-30°	1776.0	15.3
30°-40°	2076.6	17.9
40°-50°	2070.4	17.8
50°-60°	1796.3	15.5
60°-70°	1326.8	11.4
70°-80°	742.9	6.4
80°-90°	198.2	1.7
90°-100°	0.6	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°	3391.2	29.2
0°-40°	5467.8	47.1
0°-60°	9334.5	80.4
0°-90°	11602.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4442	4442	4442	4442	4442	
5°	4400	4428	4412	4432	4437	418
15°	4210	4239	4232	4253	4253	1187
25°	3833	3864	3854	3863	3849	1767
35°	3316	3345	3324	3324	3303	2071
45°	2679	2708	2687	2676	2659	2068
55°	2008	2022	2008	2005	1990	1795
65°	1327	1340	1340	1347	1343	1312
75°	663	683	706	711	717	706
85°	127	154	175	190	198	154
90°	0	3	3	8	7	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P730281

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4442.0	4442.0	4442.0	4442.0	4442.0
2.5°	4417.7	4444.0	4425.6	4443.1	4463.5
5°	4399.9	4427.6	4412.3	4431.8	4437.4
7.5°	4373.9	4400.7	4386.0	4405.5	4411.5
10°	4329.8	4358.9	4347.3	4369.4	4375.6
12.5°	4278.4	4305.8	4298.2	4323.9	4328.1
15°	4209.5	4238.9	4232.4	4252.7	4253.0
17.5°	4133.2	4160.9	4156.1	4171.9	4171.3
20°	4048.8	4078.4	4068.3	4085.5	4080.1
22.5°	3948.8	3980.4	3967.7	3982.1	3968.5
25°	3832.6	3863.5	3854.4	3862.9	3848.8
27.5°	3720.2	3748.5	3729.8	3740.0	3725.0
30°	3594.8	3618.8	3604.4	3607.8	3589.7
32.5°	3453.8	3482.4	3464.8	3464.3	3445.1
35°	3316.0	3345.1	3324.5	3323.9	3303.3
37.5°	3163.5	3190.6	3166.3	3167.7	3143.7
40°	3007.8	3031.3	3007.8	3006.7	2984.7
42.5°	2838.9	2870.0	2848.5	2851.0	2821.7
45°	2679.3	2707.8	2686.7	2675.6	2659.2
47.5°	2520.3	2532.7	2515.2	2512.3	2489.2
50°	2351.9	2361.2	2347.9	2344.6	2318.6
52.5°	2177.9	2194.0	2177.0	2172.5	2155.3
55°	2007.8	2021.7	2008.1	2004.7	1990.0
57.5°	1836.7	1854.8	1840.9	1837.5	1825.7
60°	1665.5	1670.9	1667.5	1672.5	1661.0
62.5°	1495.4	1507.9	1511.8	1510.4	1501.4
65°	1326.8	1339.8	1340.1	1346.9	1343.4
67.5°	1154.2	1171.1	1176.0	1183.0	1186.1
70°	991.8	1004.8	1018.9	1023.1	1020.0
72.5°	828.2	849.1	865.0	868.6	881.9
75°	663.3	683.0	706.2	711.3	717.2
77.5°	510.2	536.4	557.3	564.1	571.5
80°	365.0	394.0	414.9	424.3	438.4
82.5°	239.5	269.2	290.4	299.7	317.0
85°	127.1	153.7	174.9	190.4	197.7
87.5°	37.6	60.2	72.3	76.8	83.3
90°	0.0	2.8	3.4	7.6	7.1
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P730281

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L740

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)