

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: P730280

Luminaire Tested: **HBLED-LD5-12HE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730280
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-L735
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11261.0 lumens
Efficiency: N/A
Efficacy: 154.9 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

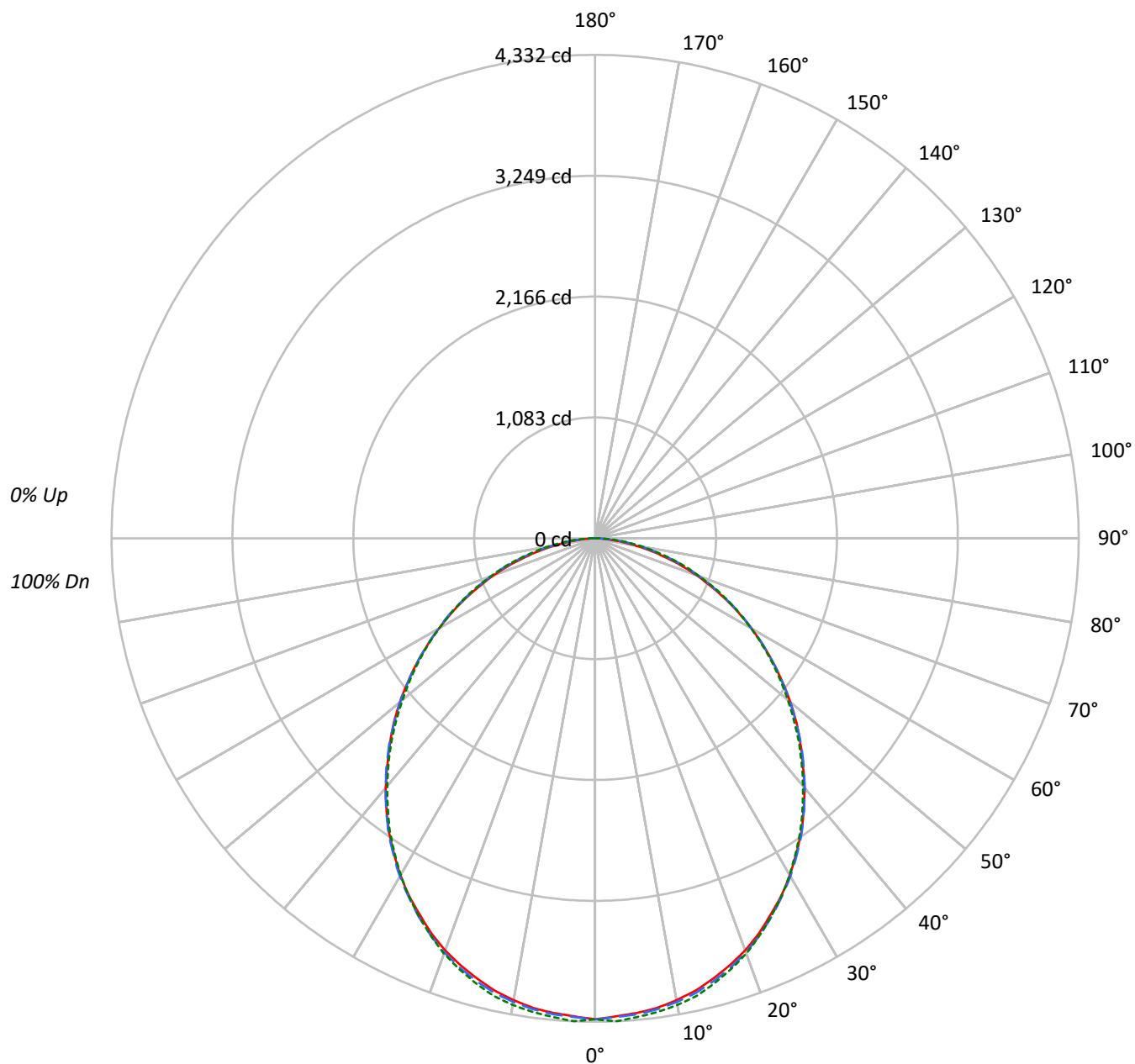
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730280

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L735

Luminous Intensity Polar Plot





TEST NUMBER: P730280

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L735

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°	6960	6960	6960
5°	6921	6940	6980
10°	6889	6917	6962
15°	6829	6866	6899
20°	6752	6784	6804
25°	6627	6664	6654
30°	6504	6522	6495
35°	6343	6360	6319
40°	6153	6153	6105
45°	5937	5954	5893
50°	5734	5724	5652
55°	5485	5486	5437
60°	5220	5226	5205
65°	4920	4969	4981
70°	4544	4668	4673
75°	4016	4276	4342
80°	3293	3744	3956
85°	2286	3144	3555



TEST NUMBER: P730280

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L735

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	3.6
10°-20°	1159.9	10.3
20°-30°	1723.6	15.3
30°-40°	2015.4	17.9
40°-50°	2009.4	17.8
50°-60°	1743.4	15.5
60°-70°	1287.7	11.4
70°-80°	721.0	6.4
80°-90°	192.4	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°	3291.2	29.2
0°-40°	5306.6	47.1
0°-60°	9059.4	80.4
0°-90°	11260.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4311	4311	4311	4311	4311	
5°	4270	4297	4282	4301	4307	406
15°	4085	4114	4108	4127	4128	1152
25°	3720	3750	3741	3749	3735	1715
35°	3218	3246	3226	3226	3206	2010
45°	2600	2628	2608	2597	2581	2007
55°	1949	1962	1949	1946	1931	1743
65°	1288	1300	1301	1307	1304	1274
75°	644	663	685	690	696	686
85°	123	149	170	185	192	150
90°	0	3	3	7	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: P730280

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4311.0	4311.0	4311.0	4311.0	4311.0
2.5°	4287.5	4313.0	4295.1	4312.1	4331.9
5°	4270.2	4297.1	4282.2	4301.1	4306.6
7.5°	4245.0	4271.0	4256.8	4275.7	4281.4
10°	4202.2	4230.5	4219.2	4240.6	4246.6
12.5°	4152.3	4178.9	4171.5	4196.4	4200.5
15°	4085.4	4113.9	4107.6	4127.4	4127.6
17.5°	4011.4	4038.2	4033.6	4049.0	4048.4
20°	3929.4	3958.2	3948.4	3965.1	3959.8
22.5°	3832.4	3863.1	3850.7	3864.7	3851.6
25°	3719.7	3749.6	3740.8	3749.0	3735.3
27.5°	3610.6	3638.0	3619.9	3629.8	3615.2
30°	3488.8	3512.1	3498.2	3501.5	3483.9
32.5°	3352.0	3379.7	3362.7	3362.2	3343.5
35°	3218.3	3246.5	3226.5	3225.9	3206.0
37.5°	3070.2	3096.5	3073.0	3074.3	3051.0
40°	2919.2	2941.9	2919.2	2918.0	2896.7
42.5°	2755.2	2785.4	2764.6	2767.0	2738.5
45°	2600.3	2628.0	2607.5	2596.8	2580.8
47.5°	2446.0	2458.1	2441.0	2438.3	2415.8
50°	2282.6	2291.6	2278.7	2275.5	2250.2
52.5°	2113.7	2129.4	2112.9	2108.5	2091.8
55°	1948.7	1962.1	1948.9	1945.6	1931.4
57.5°	1782.5	1800.1	1786.7	1783.3	1771.9
60°	1616.4	1621.6	1618.3	1623.2	1612.0
62.5°	1451.4	1463.4	1467.3	1465.9	1457.1
65°	1287.7	1300.3	1300.6	1307.2	1303.8
67.5°	1120.2	1136.6	1141.3	1148.1	1151.1
70°	962.5	975.1	988.9	993.0	989.9
72.5°	803.8	824.1	839.5	843.0	855.9
75°	643.7	662.9	685.4	690.3	696.1
77.5°	495.1	520.6	540.9	547.5	554.6
80°	354.2	382.4	402.7	411.8	425.5
82.5°	232.5	261.3	281.8	290.9	307.6
85°	123.4	149.2	169.7	184.8	191.9
87.5°	36.5	58.4	70.2	74.6	80.9
90°	0.0	2.7	3.3	7.4	6.9
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: P730280

CATALOG NUMBER: HBLED-LD5-12HE-W-FLI-UNV-L735

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)