

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: P730283

Luminaire Tested: **HBLED-LD5-12HE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730283
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-L835
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10765.0 lumens
Efficiency: N/A
Efficacy: 148.1 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

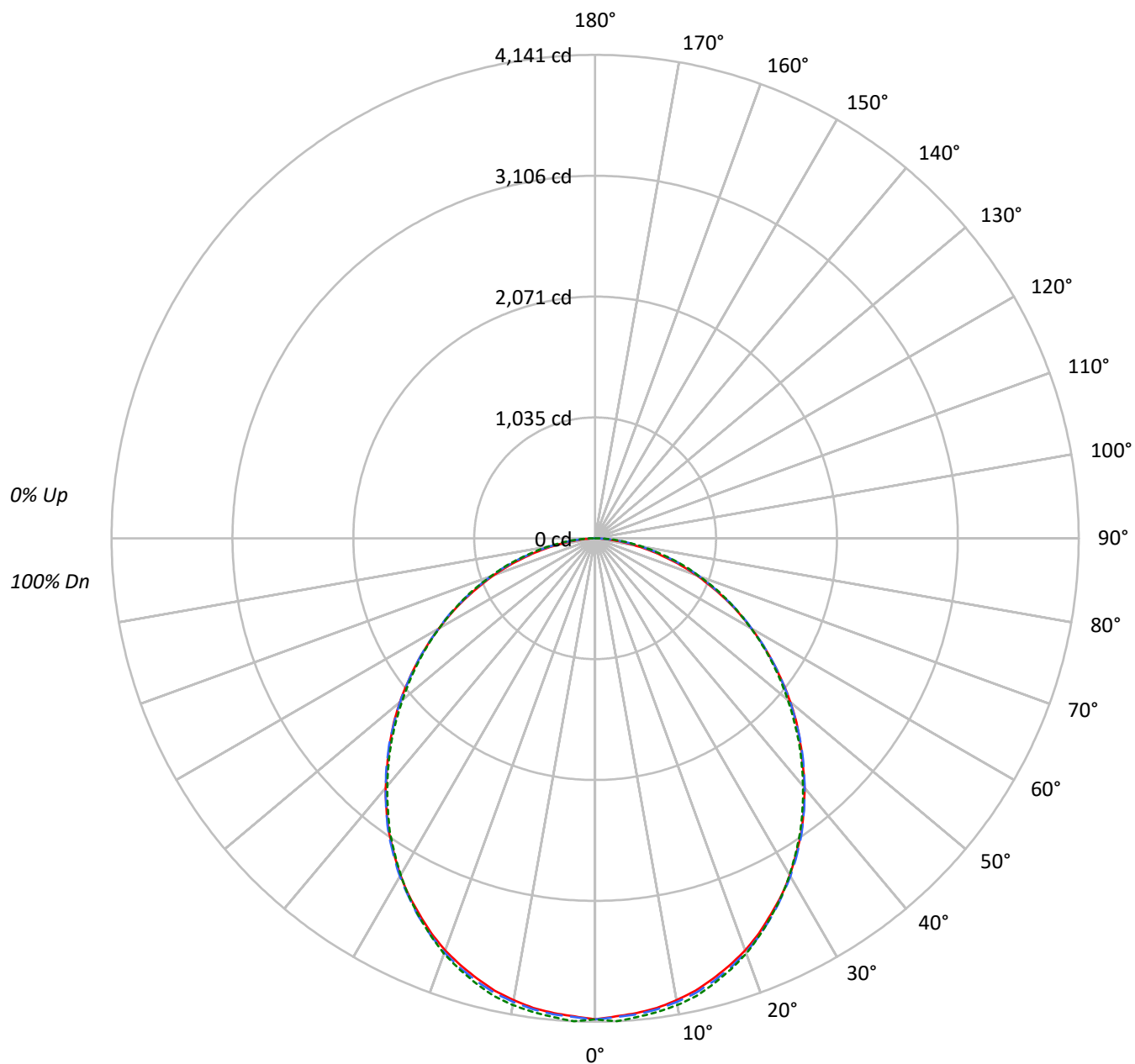
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6654	6654	6654
5°	6616	6635	6673
10°	6586	6613	6656
15°	6528	6564	6596
20°	6454	6485	6504
25°	6335	6371	6361
30°	6218	6235	6209
35°	6064	6079	6041
40°	5882	5882	5836
45°	5676	5692	5634
50°	5481	5472	5403
55°	5244	5245	5197
60°	4990	4996	4976
65°	4703	4750	4762
70°	4344	4463	4467
75°	3839	4087	4151
80°	3148	3580	3782
85°	2184	3005	3398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	3.6
10°-20°	1108.8	10.3
20°-30°	1647.7	15.3
30°-40°	1926.6	17.9
40°-50°	1920.9	17.8
50°-60°	1666.6	15.5
60°-70°	1231.0	11.4
70°-80°	689.2	6.4
80°-90°	183.9	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°	3146.2	29.2
0°-40°	5072.8	47.1
0°-60°	8660.3	80.4
0°-90°	10764.4	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	10765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4121	4121	4121	4121	4121	
5°	4082	4108	4094	4112	4117	388
15°	3906	3933	3927	3946	3946	1101
25°	3556	3584	3576	3584	3571	1639
35°	3076	3104	3084	3084	3065	1922
45°	2486	2512	2493	2482	2467	1919
55°	1863	1876	1863	1860	1846	1666
65°	1231	1243	1243	1250	1246	1217
75°	615	634	655	660	665	655
85°	118	143	162	177	183	143
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4121.1	4121.1	4121.1	4121.1	4121.1
2.5°	4098.6	4123.0	4105.9	4122.2	4141.1
5°	4082.1	4107.8	4093.6	4111.7	4117.0
7.5°	4058.0	4082.9	4069.3	4087.4	4092.9
10°	4017.1	4044.1	4033.4	4053.8	4059.6
12.5°	3969.4	3994.8	3987.7	4011.6	4015.5
15°	3905.5	3932.7	3926.7	3945.6	3945.8
17.5°	3834.7	3860.4	3855.9	3870.6	3870.1
20°	3756.4	3783.8	3774.4	3790.4	3785.4
22.5°	3663.6	3692.9	3681.1	3694.5	3681.9
25°	3555.8	3584.4	3576.0	3583.9	3570.8
27.5°	3451.5	3477.8	3460.4	3469.9	3456.0
30°	3335.2	3357.4	3344.1	3347.2	3330.5
32.5°	3204.4	3230.9	3214.6	3214.1	3196.3
35°	3076.5	3103.5	3084.4	3083.8	3064.7
37.5°	2935.0	2960.1	2937.6	2938.9	2916.7
40°	2790.6	2812.4	2790.6	2789.5	2769.1
42.5°	2633.9	2662.7	2642.8	2645.1	2617.9
45°	2485.8	2512.3	2492.6	2482.4	2467.2
47.5°	2338.3	2349.8	2333.5	2330.9	2309.4
50°	2182.0	2190.7	2178.4	2175.2	2151.1
52.5°	2020.6	2035.6	2019.8	2015.6	1999.7
55°	1862.8	1875.7	1863.1	1859.9	1846.3
57.5°	1704.0	1720.8	1708.0	1704.8	1693.8
60°	1545.2	1550.2	1547.0	1551.7	1541.0
62.5°	1387.4	1399.0	1402.6	1401.3	1392.9
65°	1231.0	1243.0	1243.3	1249.6	1246.4
67.5°	1070.8	1086.6	1091.0	1097.6	1100.4
70°	920.1	932.2	945.3	949.2	946.3
72.5°	768.4	787.8	802.5	805.9	818.2
75°	615.4	633.7	655.2	659.9	665.4
77.5°	473.3	497.7	517.1	523.4	530.2
80°	338.6	365.6	385.0	393.6	406.8
82.5°	222.2	249.8	269.4	278.1	294.1
85°	117.9	142.6	162.2	176.6	183.4
87.5°	34.9	55.8	67.1	71.3	77.3
90°	0.0	2.6	3.1	7.1	6.6
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



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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)