

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: P#

Luminaire Tested: **8ILED-LD5-10-W-ASYWG-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-ASYWG-UNV-L835-CD1-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7467.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

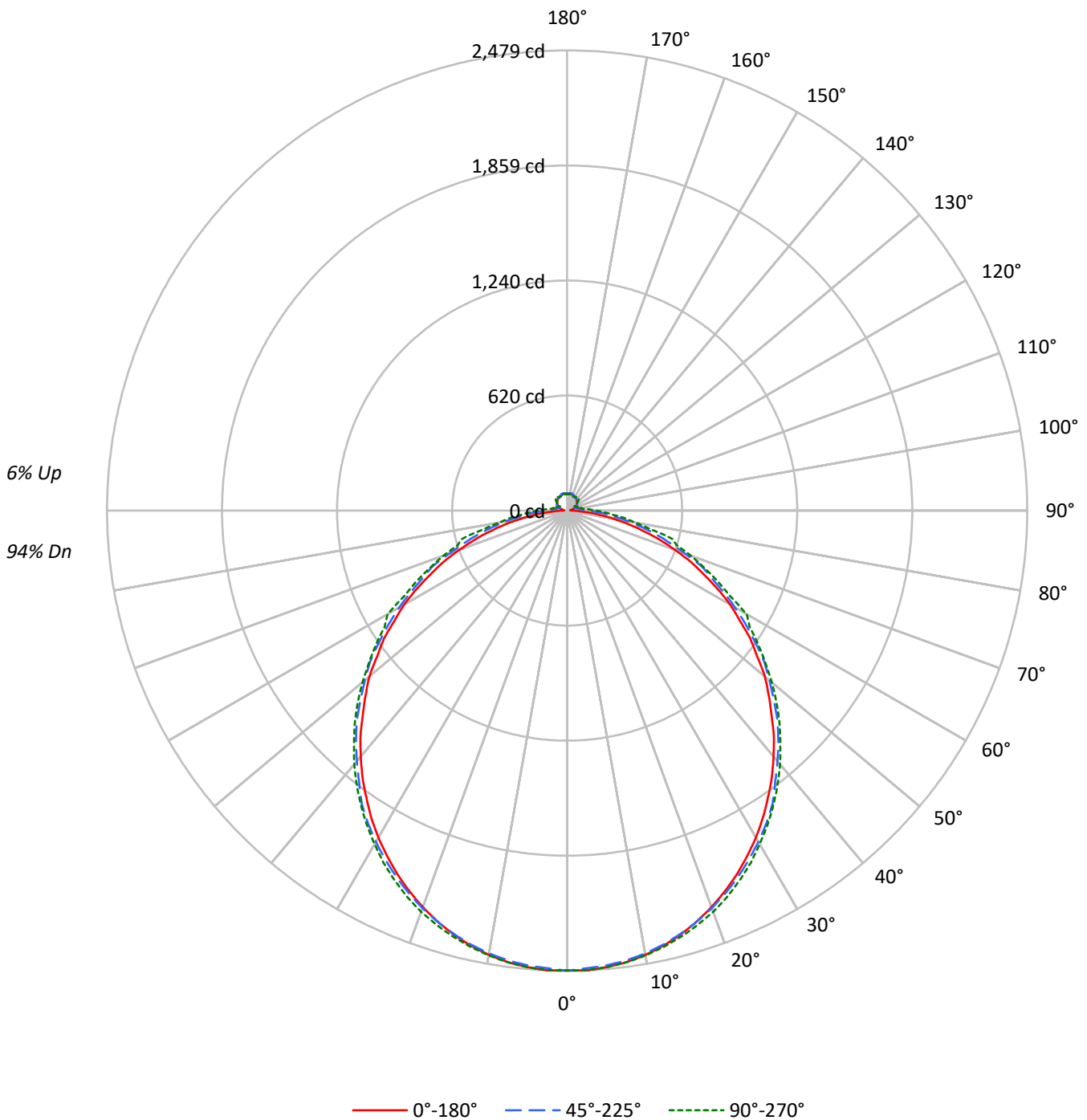
Input Watts (W): 67
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3637	3637	3637
5°	3633	3596	3603
10°	3614	3556	3558
15°	3581	3506	3507
20°	3535	3451	3456
25°	3482	3391	3387
30°	3423	3326	3309
35°	3351	3260	3225
40°	3279	3149	3132
45°	3193	3063	3027
50°	3129	2946	2907
55°	3029	2818	2783
60°	2917	2667	2756
65°	2745	2512	2503
70°	2556	2333	2336
75°	2309	2129	2362
80°	2006	1925	1933
85°	1671	1763	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	3.1
10°-20°	667.9	8.9
20°-30°	1004.8	13.5
30°-40°	1200.9	16.1
40°-50°	1232.0	16.5
50°-60°	1105.6	14.8
60°-70°	849.5	11.4
70°-80°	519.8	7.0
80°-90°	220.4	3.0
90°-100°	77.6	1.0
100°-110°	54.3	0.7
110°-120°	50.6	0.7
120°-130°	59.0	0.8
130°-140°	62.4	0.8
140°-150°	52.8	0.7
150°-160°	40.3	0.5
160°-170°	26.2	0.4
170°-180°	8.8	0.1
0°-30°	1906.9	25.5
0°-40°	3107.8	41.6
0°-60°	5445.4	72.9
0°-90°	7035.0	94.2
90°-120°	182.5	2.4
90°-150°	356.7	4.8
90°-180°	432.0	5.8
0°-180°	7467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2478	2478	2478	2478	2478	
5°	2468	2468	2459	2468	2468	234
15°	2365	2366	2361	2373	2376	667
25°	2162	2167	2178	2197	2198	996
35°	1886	1911	1929	1933	1937	1181
45°	1557	1585	1602	1615	1617	1204
55°	1205	1216	1236	1254	1257	1074
65°	811	826	856	884	889	806
75°	426	449	496	525	586	454
85°	113	154	208	235	242	121
90°	22	62	118	149	156	17
95°	18	42	72	97	101	16
105°	34	33	49	78	72	36
115°	50	56	42	49	52	51
125°	64	64	76	66	55	58
135°	75	74	81	90	87	58
145°	82	85	81	85	89	52
155°	87	93	87	83	83	40
165°	90	93	96	93	90	26
175°	92	92	92	92	89	9
180°	90	90	90	90	90	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2478.0	2478.0	2478.0	2478.0	2478.0
2.5°	2479.4	2478.0	2467.1	2475.3	2478.0
5°	2468.5	2468.5	2458.9	2468.5	2468.5
7.5°	2453.5	2452.1	2443.9	2452.1	2454.8
10°	2430.2	2430.2	2422.0	2431.6	2433.0
12.5°	2400.2	2401.5	2394.7	2404.3	2407.0
15°	2364.7	2366.0	2360.6	2372.9	2375.6
17.5°	2320.9	2323.7	2322.3	2336.0	2340.1
20°	2273.1	2281.3	2278.6	2296.4	2300.5
22.5°	2219.9	2225.3	2230.8	2249.9	2252.6
25°	2162.5	2166.6	2177.5	2196.6	2198.0
27.5°	2099.6	2110.6	2120.1	2135.2	2140.6
30°	2034.1	2049.1	2060.0	2073.7	2075.1
32.5°	1963.0	1983.5	1997.2	2004.0	2008.1
35°	1886.5	1911.1	1928.9	1933.0	1937.1
37.5°	1811.4	1837.4	1841.5	1860.6	1861.9
40°	1729.4	1759.5	1762.2	1780.0	1784.1
42.5°	1648.8	1665.2	1684.4	1700.8	1699.4
45°	1557.3	1584.6	1602.4	1614.7	1617.4
47.5°	1472.6	1504.0	1509.5	1524.5	1530.0
50°	1390.7	1415.2	1422.1	1441.2	1438.5
52.5°	1290.9	1318.3	1338.7	1345.6	1345.6
55°	1204.9	1215.8	1236.3	1254.0	1256.8
57.5°	1102.4	1120.2	1139.3	1163.9	1166.6
60°	1015.0	1028.6	1043.7	1084.7	1116.1
62.5°	912.5	926.2	948.0	982.2	982.2
65°	811.4	826.5	856.5	883.8	889.3
67.5°	719.9	733.6	784.1	791.0	795.1
70°	616.1	633.9	672.1	698.1	707.6
72.5°	521.8	538.2	579.2	612.0	617.5
75°	426.2	449.4	495.9	524.6	586.0
77.5°	338.8	367.5	411.2	445.3	457.6
80°	254.1	285.5	338.8	364.7	370.2
82.5°	176.2	217.2	263.7	301.9	311.5
85°	113.4	154.4	207.6	235.0	241.8
87.5°	60.1	103.8	155.7	188.5	196.7
90°	21.9	61.5	117.5	148.9	155.7
92.5°	19.1	43.7	88.8	116.1	122.9
95°	17.8	42.3	72.4	97.0	101.1
97.5°	20.5	36.9	64.2	76.5	80.6
100°	24.6	32.8	61.5	73.8	77.9
102.5°	28.7	30.1	56.0	66.9	66.9
105°	34.2	32.8	49.2	77.9	72.4
107.5°	38.2	43.7	47.8	57.4	62.8
110°	43.7	47.8	42.3	54.6	56.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.8	53.3	42.3	53.3	53.3
115°	50.5	56.0	42.3	49.2	51.9
117.5°	54.6	57.4	53.3	47.8	47.8
120°	58.7	58.7	65.6	46.4	46.4
122.5°	61.5	61.5	69.7	51.9	46.4
125°	64.2	64.2	76.5	65.6	54.6
127.5°	66.9	66.9	79.2	75.1	68.3
130°	69.7	68.3	82.0	80.6	76.5
132.5°	72.4	71.0	82.0	84.7	82.0
135°	75.1	73.8	80.6	90.2	87.4
137.5°	76.5	76.5	79.2	91.5	91.5
140°	79.2	79.2	79.2	90.2	94.3
142.5°	80.6	82.0	80.6	87.4	91.5
145°	82.0	84.7	80.6	84.7	88.8
147.5°	83.3	87.4	80.6	84.7	84.7
150°	86.1	88.8	82.0	83.3	84.7
152.5°	86.1	91.5	84.7	83.3	83.3
155°	87.4	92.9	87.4	83.3	83.3
157.5°	88.8	92.9	88.8	84.7	83.3
160°	88.8	94.3	91.5	87.4	84.7
162.5°	90.2	94.3	94.3	90.2	87.4
165°	90.2	92.9	95.6	92.9	90.2
167.5°	90.2	92.9	95.6	94.3	91.5
170°	91.5	92.9	94.3	94.3	91.5
172.5°	91.5	91.5	92.9	92.9	91.5
175°	91.5	91.5	91.5	91.5	88.8
177.5°	91.5	91.5	91.5	90.2	87.4
180°	90.2	90.2	90.2	90.2	90.2

(END OF REPORT)