

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: **4ILED-LD5-16-W-ASYWG-UNV-L840-CD2-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: 4ILED-LD5-16-W-ASYWG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

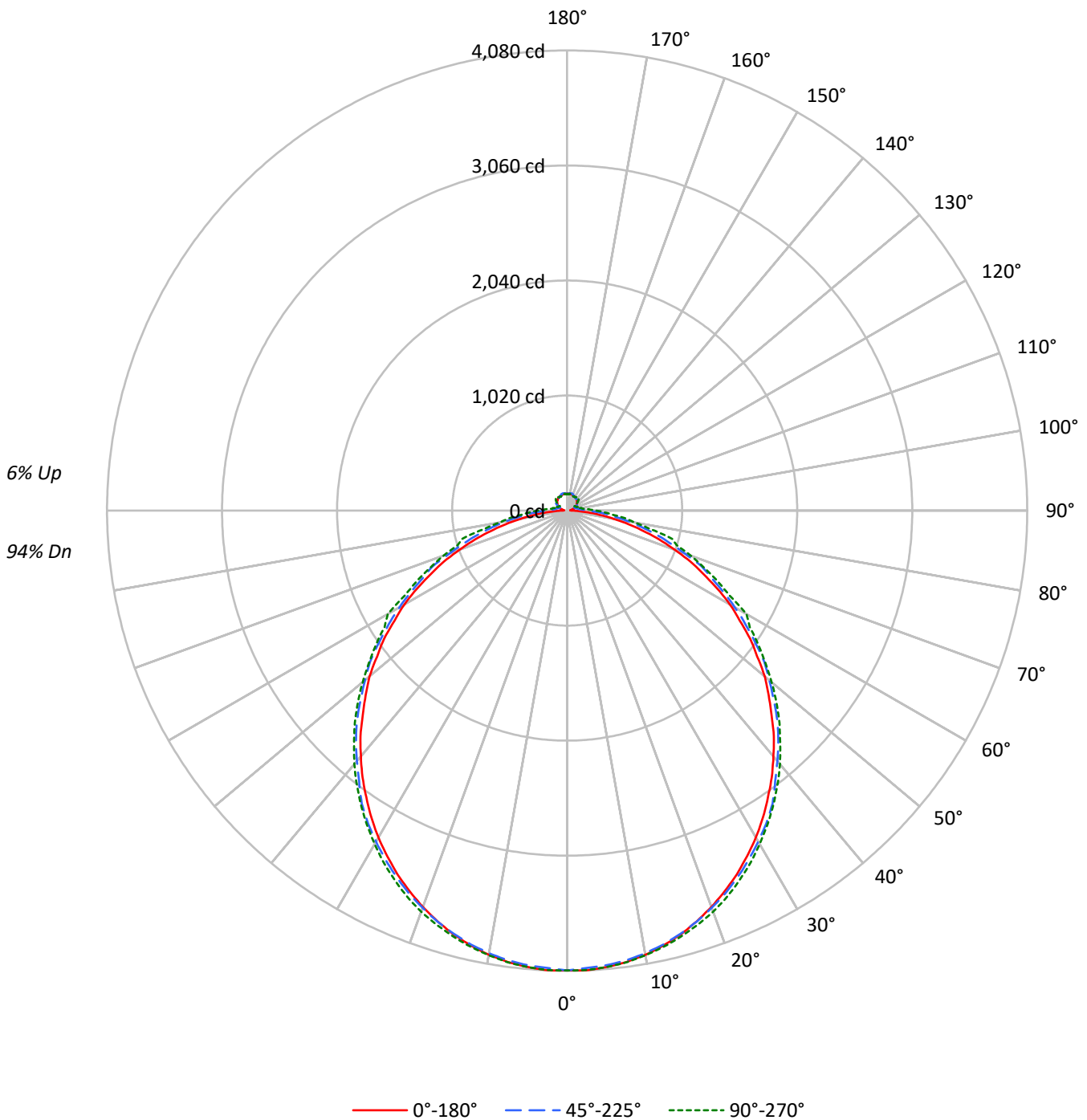
Lumens per Lamp: N/A
Luminaire Lumens: 12286.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
Input Voltage (V):
Input Current (A_{in}): 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°	11969	11969	11969
5°	11943	11824	11856
10°	11867	11684	11708
15°	11746	11512	11542
20°	11579	11322	11373
25°	11392	11114	11147
30°	11183	10893	10888
35°	10933	10666	10611
40°	10681	10292	10306
45°	10379	9998	9962
50°	10147	9601	9566
55°	9797	9170	9157
60°	9398	8660	9068
65°	8802	8135	8237
70°	8142	7530	7689
75°	7276	6835	7773
80°	6190	6128	6361
85°	4888	5522	5963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	3.1
10°-20°	1098.9	8.9
20°-30°	1653.3	13.5
30°-40°	1976.0	16.1
40°-50°	2027.2	16.5
50°-60°	1819.0	14.8
60°-70°	1397.7	11.4
70°-80°	855.2	7.0
80°-90°	362.7	3.0
90°-100°	127.7	1.0
100°-110°	89.3	0.7
110°-120°	83.3	0.7
120°-130°	97.0	0.8
130°-140°	102.7	0.8
140°-150°	86.9	0.7
150°-160°	66.3	0.5
160°-170°	43.0	0.4
170°-180°	14.4	0.1
0°-30°	3137.5	25.5
0°-40°	5113.5	41.6
0°-60°	8959.7	72.9
0°-90°	11575.3	94.2
90°-120°	300.3	2.4
90°-150°	587.0	4.8
90°-180°	711.0	5.8
0°-180°	12286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4077	4077	4077	4077	4077	
5°	4062	4062	4046	4062	4062	386
15°	3891	3893	3884	3904	3909	1097
25°	3558	3565	3583	3614	3616	1639
35°	3104	3144	3174	3180	3187	1943
45°	2562	2607	2636	2657	2661	1981
55°	1982	2000	2034	2063	2068	1766
65°	1335	1360	1409	1454	1463	1327
75°	701	740	816	863	964	747
85°	187	254	342	387	398	200
90°	36	101	193	245	256	28
95°	29	70	119	160	166	27
105°	56	54	81	128	119	59
115°	83	92	70	81	85	83
125°	106	106	126	108	90	95
135°	124	121	133	148	144	95
145°	135	139	133	139	146	85
155°	144	153	144	137	137	67
165°	148	153	157	153	148	42
175°	151	151	151	151	146	14
180°	148	148	148	148	148	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-ASYWG-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4077.3	4077.3	4077.3	4077.3	4077.3
2.5°	4079.6	4077.3	4059.3	4072.8	4077.3
5°	4061.6	4061.6	4045.8	4061.6	4061.6
7.5°	4036.8	4034.6	4021.1	4034.6	4039.1
10°	3998.6	3998.6	3985.2	4000.9	4003.1
12.5°	3949.2	3951.4	3940.2	3955.9	3960.4
15°	3890.7	3893.0	3884.0	3904.2	3908.7
17.5°	3818.8	3823.3	3821.1	3843.5	3850.3
20°	3740.2	3753.6	3749.1	3778.4	3785.1
22.5°	3652.5	3661.5	3670.5	3701.9	3706.4
25°	3558.1	3564.8	3582.8	3614.3	3616.5
27.5°	3454.7	3472.7	3488.4	3513.1	3522.1
30°	3346.8	3371.5	3389.5	3412.0	3414.2
32.5°	3229.9	3263.6	3286.1	3297.4	3304.1
35°	3104.1	3144.5	3173.7	3180.5	3187.2
37.5°	2980.4	3023.1	3029.9	3061.4	3063.6
40°	2845.6	2895.0	2899.5	2928.7	2935.5
42.5°	2713.0	2739.9	2771.4	2798.4	2796.1
45°	2562.4	2607.3	2636.5	2656.8	2661.3
47.5°	2423.0	2474.7	2483.7	2508.4	2517.4
50°	2288.1	2328.6	2339.8	2371.3	2366.8
52.5°	2124.1	2169.0	2202.7	2214.0	2214.0
55°	1982.5	2000.4	2034.2	2063.4	2067.9
57.5°	1813.9	1843.1	1874.6	1915.0	1919.5
60°	1670.0	1692.5	1717.2	1784.7	1836.4
62.5°	1501.5	1523.9	1559.9	1616.1	1616.1
65°	1335.1	1359.9	1409.3	1454.3	1463.2
67.5°	1184.5	1207.0	1290.2	1301.4	1308.2
70°	1013.7	1042.9	1105.9	1148.6	1164.3
72.5°	858.6	885.6	953.0	1007.0	1016.0
75°	701.3	739.5	815.9	863.1	964.3
77.5°	557.4	604.6	676.6	732.7	753.0
80°	418.1	469.8	557.4	600.1	609.1
82.5°	290.0	357.4	433.8	496.7	512.5
85°	186.6	254.0	341.6	386.6	397.8
87.5°	98.9	170.8	256.2	310.2	323.7
90°	36.0	101.1	193.3	245.0	256.2
92.5°	31.5	71.9	146.1	191.1	202.3
95°	29.2	69.7	119.1	159.6	166.3
97.5°	33.7	60.7	105.6	125.9	132.6
100°	40.5	53.9	101.1	121.4	128.1
102.5°	47.2	49.4	92.2	110.1	110.1
105°	56.2	53.9	80.9	128.1	119.1
107.5°	62.9	71.9	78.7	94.4	103.4
110°	71.9	78.7	69.7	89.9	92.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	78.7	87.7	69.7	87.7	87.7
115°	83.2	92.2	69.7	80.9	85.4
117.5°	89.9	94.4	87.7	78.7	78.7
120°	96.7	96.7	107.9	76.4	76.4
122.5°	101.1	101.1	114.6	85.4	76.4
125°	105.6	105.6	125.9	107.9	89.9
127.5°	110.1	110.1	130.4	123.6	112.4
130°	114.6	112.4	134.9	132.6	125.9
132.5°	119.1	116.9	134.9	139.4	134.9
135°	123.6	121.4	132.6	148.3	143.9
137.5°	125.9	125.9	130.4	150.6	150.6
140°	130.4	130.4	130.4	148.3	155.1
142.5°	132.6	134.9	132.6	143.9	150.6
145°	134.9	139.4	132.6	139.4	146.1
147.5°	137.1	143.9	132.6	139.4	139.4
150°	141.6	146.1	134.9	137.1	139.4
152.5°	141.6	150.6	139.4	137.1	137.1
155°	143.9	152.8	143.9	137.1	137.1
157.5°	146.1	152.8	146.1	139.4	137.1
160°	146.1	155.1	150.6	143.9	139.4
162.5°	148.3	155.1	155.1	148.3	143.9
165°	148.3	152.8	157.3	152.8	148.3
167.5°	148.3	152.8	157.3	155.1	150.6
170°	150.6	152.8	155.1	155.1	150.6
172.5°	150.6	150.6	152.8	152.8	150.6
175°	150.6	150.6	150.6	150.6	146.1
177.5°	150.6	150.6	150.6	148.3	143.9
180°	148.3	148.3	148.3	148.3	148.3

(END OF REPORT)