

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-LD5-18-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: 8ILED-LD5-18-W-ASYWG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

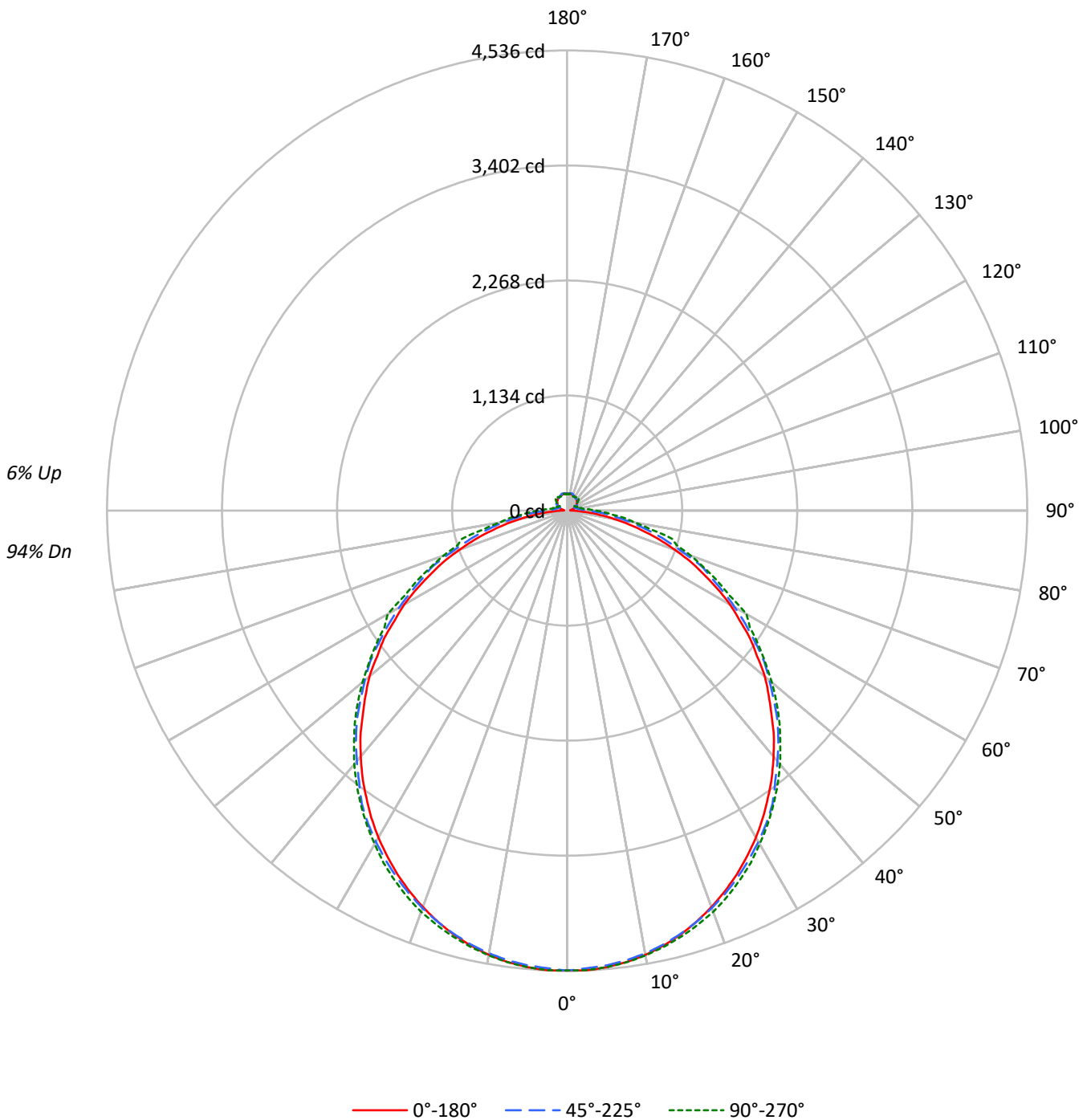
Lumens per Lamp: N/A
Luminaire Lumens: 13662.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	6655	6655	6655
5°	6647	6579	6592
10°	6613	6506	6510
15°	6553	6415	6417
20°	6467	6314	6323
25°	6371	6204	6198
30°	6262	6086	6053
35°	6131	5965	5900
40°	6000	5762	5730
45°	5842	5604	5539
50°	5725	5389	5318
55°	5542	5156	5091
60°	5336	4879	5042
65°	5022	4595	4580
70°	4677	4269	4275
75°	4225	3895	4322
80°	3670	3522	3537
85°	3058	3227	3316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	3.1
10°-20°	1222.0	8.9
20°-30°	1838.4	13.5
30°-40°	2197.3	16.1
40°-50°	2254.2	16.5
50°-60°	2022.8	14.8
60°-70°	1554.2	11.4
70°-80°	951.0	7.0
80°-90°	403.3	3.0
90°-100°	142.0	1.0
100°-110°	99.3	0.7
110°-120°	92.7	0.7
120°-130°	107.9	0.8
130°-140°	114.3	0.8
140°-150°	96.7	0.7
150°-160°	73.8	0.5
160°-170°	47.9	0.4
170°-180°	16.1	0.1
0°-30°	3488.9	25.5
0°-40°	5686.2	41.6
0°-60°	9963.2	72.9
0°-90°	12871.7	94.2
90°-120°	333.9	2.4
90°-150°	652.8	4.8
90°-180°	790.0	5.8
0°-180°	13662.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4534	4534	4534	4534	4534	
5°	4516	4516	4499	4516	4516	429
15°	4326	4329	4319	4342	4346	1220
25°	3957	3964	3984	4019	4022	1822
35°	3452	3497	3529	3537	3544	2161
45°	2849	2899	2932	2954	2959	2203
55°	2204	2224	2262	2294	2300	1964
65°	1485	1512	1567	1617	1627	1475
75°	780	822	907	960	1072	831
85°	208	282	380	430	442	222
90°	40	112	215	272	285	31
95°	32	78	132	178	185	30
105°	62	60	90	142	132	65
115°	92	102	78	90	95	93
125°	118	118	140	120	100	105
135°	138	135	148	165	160	106
145°	150	155	148	155	162	94
155°	160	170	160	152	152	74
165°	165	170	175	170	165	47
175°	168	168	168	168	162	16
180°	165	165	165	165	165	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-ASYWG-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4534.0	4534.0	4534.0	4534.0	4534.0
2.5°	4536.5	4534.0	4514.0	4529.0	4534.0
5°	4516.5	4516.5	4499.0	4516.5	4516.5
7.5°	4489.0	4486.5	4471.5	4486.5	4491.5
10°	4446.5	4446.5	4431.5	4449.0	4451.5
12.5°	4391.5	4394.0	4381.5	4399.0	4404.0
15°	4326.5	4329.0	4319.0	4341.5	4346.5
17.5°	4246.5	4251.5	4249.0	4274.0	4281.5
20°	4159.0	4174.0	4169.0	4201.5	4209.0
22.5°	4061.6	4071.6	4081.6	4116.5	4121.5
25°	3956.6	3964.1	3984.1	4019.1	4021.6
27.5°	3841.6	3861.6	3879.1	3906.6	3916.6
30°	3721.6	3749.1	3769.1	3794.1	3796.6
32.5°	3591.7	3629.2	3654.2	3666.7	3674.2
35°	3451.7	3496.7	3529.2	3536.7	3544.2
37.5°	3314.2	3361.7	3369.2	3404.2	3406.7
40°	3164.3	3219.3	3224.3	3256.7	3264.2
42.5°	3016.8	3046.8	3081.8	3111.8	3109.3
45°	2849.3	2899.3	2931.8	2954.3	2959.3
47.5°	2694.4	2751.9	2761.9	2789.4	2799.4
50°	2544.4	2589.4	2601.9	2636.9	2631.9
52.5°	2362.0	2411.9	2449.4	2461.9	2461.9
55°	2204.5	2224.5	2262.0	2294.5	2299.5
57.5°	2017.0	2049.5	2084.5	2129.5	2134.5
60°	1857.1	1882.1	1909.6	1984.5	2042.0
62.5°	1669.6	1694.6	1734.6	1797.1	1797.1
65°	1484.7	1512.2	1567.1	1617.1	1627.1
67.5°	1317.2	1342.2	1434.7	1447.2	1454.7
70°	1127.2	1159.7	1229.7	1277.2	1294.7
72.5°	954.8	984.8	1059.8	1119.7	1129.7
75°	779.8	822.3	907.3	959.8	1072.3
77.5°	619.9	672.3	752.3	814.8	837.3
80°	464.9	522.4	619.9	667.3	677.3
82.5°	322.4	397.4	482.4	552.4	569.9
85°	207.5	282.4	379.9	429.9	442.4
87.5°	110.0	190.0	284.9	344.9	359.9
90°	40.0	112.5	215.0	272.4	284.9
92.5°	35.0	80.0	162.5	212.5	224.9
95°	32.5	77.5	132.5	177.5	185.0
97.5°	37.5	67.5	117.5	140.0	147.5
100°	45.0	60.0	112.5	135.0	142.5
102.5°	52.5	55.0	102.5	122.5	122.5
105°	62.5	60.0	90.0	142.5	132.5
107.5°	70.0	80.0	87.5	105.0	115.0
110°	80.0	87.5	77.5	100.0	102.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.5	97.5	77.5	97.5	97.5
115°	92.5	102.5	77.5	90.0	95.0
117.5°	100.0	105.0	97.5	87.5	87.5
120°	107.5	107.5	120.0	85.0	85.0
122.5°	112.5	112.5	127.5	95.0	85.0
125°	117.5	117.5	140.0	120.0	100.0
127.5°	122.5	122.5	145.0	137.5	125.0
130°	127.5	125.0	150.0	147.5	140.0
132.5°	132.5	130.0	150.0	155.0	150.0
135°	137.5	135.0	147.5	165.0	160.0
137.5°	140.0	140.0	145.0	167.5	167.5
140°	145.0	145.0	145.0	165.0	172.5
142.5°	147.5	150.0	147.5	160.0	167.5
145°	150.0	155.0	147.5	155.0	162.5
147.5°	152.5	160.0	147.5	155.0	155.0
150°	157.5	162.5	150.0	152.5	155.0
152.5°	157.5	167.5	155.0	152.5	152.5
155°	160.0	170.0	160.0	152.5	152.5
157.5°	162.5	170.0	162.5	155.0	152.5
160°	162.5	172.5	167.5	160.0	155.0
162.5°	165.0	172.5	172.5	165.0	160.0
165°	165.0	170.0	175.0	170.0	165.0
167.5°	165.0	170.0	175.0	172.5	167.5
170°	167.5	170.0	172.5	172.5	167.5
172.5°	167.5	167.5	170.0	170.0	167.5
175°	167.5	167.5	167.5	167.5	162.5
177.5°	167.5	167.5	167.5	165.0	160.0
180°	165.0	165.0	165.0	165.0	165.0

(END OF REPORT)