

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-LD5-22-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-LD5-22-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

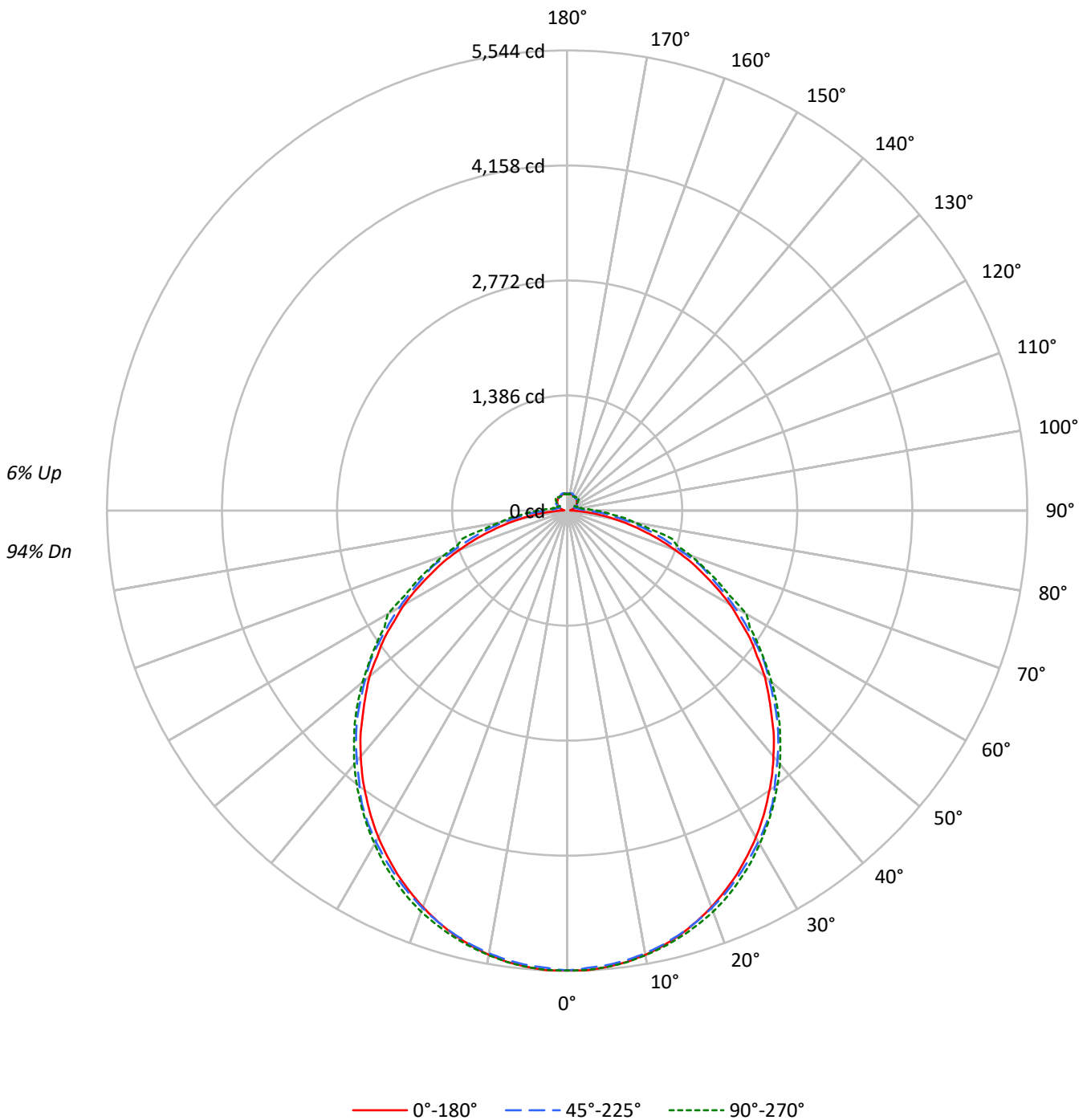
Lumens per Lamp: N/A
Luminaire Lumens: 16696.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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°	8133	8133	8133
5°	8124	8040	8056
10°	8081	7951	7955
15°	8008	7840	7842
20°	7903	7717	7728
25°	7785	7581	7574
30°	7653	7438	7398
35°	7493	7289	7210
40°	7333	7042	7003
45°	7139	6849	6769
50°	6996	6586	6500
55°	6773	6300	6222
60°	6521	5963	6162
65°	6137	5616	5597
70°	5716	5217	5224
75°	5164	4761	5281
80°	4484	4304	4323
85°	3736	3944	4052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.7	3.1
10°-20°	1493.4	8.9
20°-30°	2246.7	13.5
30°-40°	2685.2	16.1
40°-50°	2754.8	16.5
50°-60°	2472.0	14.8
60°-70°	1899.4	11.4
70°-80°	1162.2	7.0
80°-90°	492.8	3.0
90°-100°	173.5	1.0
100°-110°	121.3	0.7
110°-120°	113.2	0.7
120°-130°	131.9	0.8
130°-140°	139.6	0.8
140°-150°	118.1	0.7
150°-160°	90.1	0.5
160°-170°	58.5	0.4
170°-180°	19.6	0.1
0°-30°	4263.8	25.5
0°-40°	6949.0	41.6
0°-60°	12175.8	72.9
0°-90°	15730.2	94.2
90°-120°	408.0	2.4
90°-150°	797.6	4.8
90°-180°	966.0	5.8
0°-180°	16696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5541	5541	5541	5541	5541	
5°	5520	5520	5498	5520	5520	524
15°	5287	5290	5278	5306	5312	1490
25°	4835	4844	4869	4912	4915	2227
35°	4218	4273	4313	4322	4331	2640
45°	3482	3543	3583	3610	3616	2693
55°	2694	2718	2764	2804	2810	2401
65°	1814	1848	1915	1976	1988	1803
75°	953	1005	1109	1173	1310	1015
85°	254	345	464	525	541	272
90°	49	138	263	333	348	38
95°	40	95	162	217	226	37
105°	76	73	110	174	162	80
115°	113	125	95	110	116	113
125°	144	144	171	147	122	129
135°	168	165	180	202	196	129
145°	183	189	180	189	198	115
155°	196	208	196	186	186	90
165°	202	208	214	208	202	57
175°	205	205	205	205	198	20
180°	202	202	202	202	202	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-ASYWG-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5540.8	5540.8	5540.8	5540.8	5540.8
2.5°	5543.9	5540.8	5516.4	5534.7	5540.8
5°	5519.5	5519.5	5498.1	5519.5	5519.5
7.5°	5485.9	5482.8	5464.5	5482.8	5488.9
10°	5433.9	5433.9	5415.6	5437.0	5440.0
12.5°	5366.7	5369.8	5354.5	5375.9	5382.0
15°	5287.3	5290.4	5278.1	5305.6	5311.7
17.5°	5189.6	5195.7	5192.6	5223.2	5232.3
20°	5082.7	5101.0	5094.9	5134.6	5143.8
22.5°	4963.5	4975.8	4988.0	5030.7	5036.8
25°	4835.2	4844.4	4868.8	4911.6	4914.7
27.5°	4694.7	4719.2	4740.6	4774.2	4786.4
30°	4548.1	4581.7	4606.2	4636.7	4639.8
32.5°	4389.3	4435.1	4465.7	4480.9	4490.1
35°	4218.2	4273.2	4312.9	4322.1	4331.3
37.5°	4050.2	4108.3	4117.4	4160.2	4163.3
40°	3867.0	3934.2	3940.3	3980.0	3989.2
42.5°	3686.8	3723.4	3766.2	3802.8	3799.8
45°	3482.1	3543.2	3582.9	3610.4	3616.5
47.5°	3292.7	3363.0	3375.2	3408.8	3421.0
50°	3109.5	3164.4	3179.7	3222.5	3216.4
52.5°	2886.5	2947.6	2993.4	3008.7	3008.7
55°	2694.1	2718.5	2764.3	2804.0	2810.1
57.5°	2465.0	2504.7	2547.4	2602.4	2608.5
60°	2269.5	2300.0	2333.6	2425.3	2495.5
62.5°	2040.4	2070.9	2119.8	2196.2	2196.2
65°	1814.4	1848.0	1915.2	1976.3	1988.5
67.5°	1609.7	1640.3	1753.3	1768.5	1777.7
70°	1377.6	1417.3	1502.8	1560.8	1582.2
72.5°	1166.8	1203.5	1295.1	1368.4	1380.6
75°	953.0	1004.9	1108.8	1172.9	1310.4
77.5°	757.5	821.7	919.4	995.8	1023.3
80°	568.1	638.4	757.5	815.5	827.8
82.5°	394.0	485.7	589.5	675.0	696.4
85°	253.5	345.2	464.3	525.4	540.6
87.5°	134.4	232.1	348.2	421.5	439.8
90°	48.9	137.5	262.7	332.9	348.2
92.5°	42.8	97.7	198.5	259.6	274.9
95°	39.7	94.7	161.9	216.9	226.0
97.5°	45.8	82.5	143.6	171.1	180.2
100°	55.0	73.3	137.5	164.9	174.1
102.5°	64.1	67.2	125.2	149.7	149.7
105°	76.4	73.3	110.0	174.1	161.9
107.5°	85.5	97.7	106.9	128.3	140.5
110°	97.7	106.9	94.7	122.2	125.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.9	119.1	94.7	119.1	119.1
115°	113.0	125.2	94.7	110.0	116.1
117.5°	122.2	128.3	119.1	106.9	106.9
120°	131.3	131.3	146.6	103.9	103.9
122.5°	137.5	137.5	155.8	116.1	103.9
125°	143.6	143.6	171.1	146.6	122.2
127.5°	149.7	149.7	177.2	168.0	152.7
130°	155.8	152.7	183.3	180.2	171.1
132.5°	161.9	158.8	183.3	189.4	183.3
135°	168.0	164.9	180.2	201.6	195.5
137.5°	171.1	171.1	177.2	204.7	204.7
140°	177.2	177.2	177.2	201.6	210.8
142.5°	180.2	183.3	180.2	195.5	204.7
145°	183.3	189.4	180.2	189.4	198.5
147.5°	186.3	195.5	180.2	189.4	189.4
150°	192.4	198.5	183.3	186.3	189.4
152.5°	192.4	204.7	189.4	186.3	186.3
155°	195.5	207.7	195.5	186.3	186.3
157.5°	198.5	207.7	198.5	189.4	186.3
160°	198.5	210.8	204.7	195.5	189.4
162.5°	201.6	210.8	210.8	201.6	195.5
165°	201.6	207.7	213.8	207.7	201.6
167.5°	201.6	207.7	213.8	210.8	204.7
170°	204.7	207.7	210.8	210.8	204.7
172.5°	204.7	204.7	207.7	207.7	204.7
175°	204.7	204.7	204.7	204.7	198.5
177.5°	204.7	204.7	204.7	201.6	195.5
180°	201.6	201.6	201.6	201.6	201.6

(END OF REPORT)