

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-LD5-28-W-FLUPL-UNV-L840-CD4-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 (P34183)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-W-FLUPL-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

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

Summary

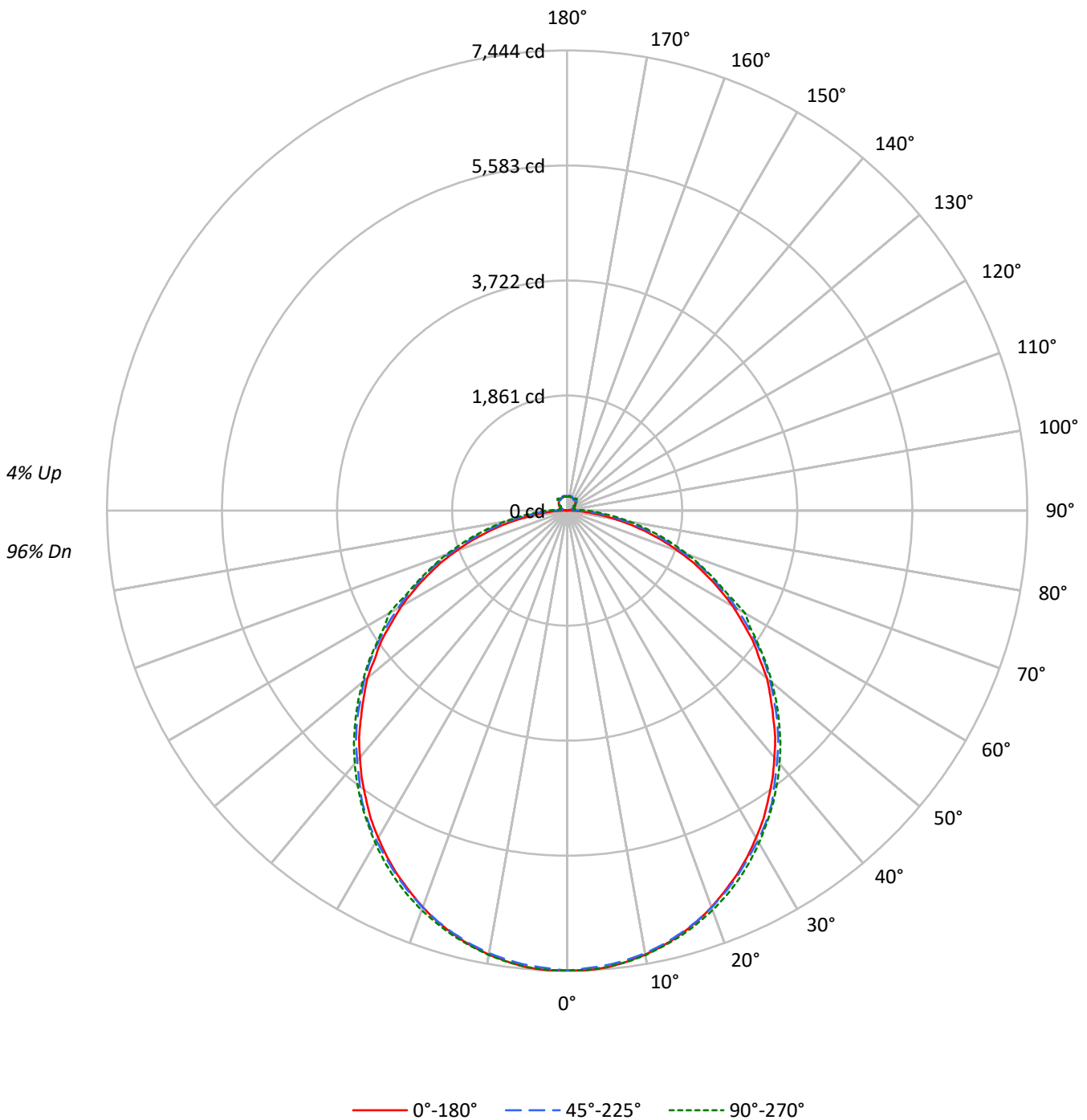
Lumens per Lamp: N/A
Luminaire Lumens: 21960.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	86	84	82	79
2	98	89	82	76	95	87	81	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	63	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	42	38	36
7	64	50	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	31	43	36	31	42	35	31	40	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10921	10921	10921
5°	10916	10796	10819
10°	10847	10675	10677
15°	10749	10519	10513
20°	10617	10347	10333
25°	10461	10152	10137
30°	10284	9962	9898
35°	10090	9763	9655
40°	9887	9442	9383
45°	9664	9186	9074
50°	9488	8878	8731
55°	9217	8514	8356
60°	8897	8078	8206
65°	8454	7566	7414
70°	7909	6965	6854
75°	7178	6217	6146
80°	6170	5274	5349
85°	4936	4187	4445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.1	3.2
10°-20°	2003.4	9.1
20°-30°	3010.2	13.7
30°-40°	3601.5	16.4
40°-50°	3702.7	16.9
50°-60°	3334.7	15.2
60°-70°	2562.8	11.7
70°-80°	1525.8	6.9
80°-90°	552.9	2.5
90°-100°	119.1	0.5
100°-110°	99.0	0.5
110°-120°	116.7	0.5
120°-130°	144.5	0.7
130°-140°	157.7	0.7
140°-150°	135.4	0.6
150°-160°	101.9	0.5
160°-170°	66.2	0.3
170°-180°	22.3	0.1
0°-30°	5716.7	26.0
0°-40°	9318.3	42.4
0°-60°	16355.7	74.5
0°-90°	20997.2	95.6
90°-120°	334.9	1.5
90°-150°	772.5	3.5
90°-180°	963.0	4.4
0°-180°	21960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7440	7440	7440	7440	7440	
5°	7417	7413	7382	7409	7413	704
15°	7097	7101	7082	7113	7120	2001
25°	6497	6508	6520	6566	6578	2992
35°	5680	5750	5776	5788	5800	3556
45°	4714	4764	4806	4852	4848	3643
55°	3666	3682	3735	3766	3774	3265
65°	2499	2522	2580	2630	2634	2478
75°	1325	1363	1448	1529	1525	1406
85°	335	400	493	566	593	368
90°	8	100	200	273	296	26
95°	27	66	96	139	154	27
105°	81	69	89	142	127	84
115°	127	142	100	104	104	125
125°	162	162	185	150	131	145
135°	189	185	212	223	220	147
145°	208	212	204	223	239	130
155°	220	235	220	212	212	102
165°	227	235	243	235	227	65
175°	231	231	235	231	223	22
180°	227	227	227	227	227	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7440.1	7440.1	7440.1	7440.1	7440.1
2.5°	7443.9	7440.1	7409.3	7432.4	7436.2
5°	7417.0	7413.1	7382.3	7409.3	7413.1
7.5°	7363.1	7363.1	7332.3	7363.1	7366.9
10°	7293.8	7293.8	7270.6	7297.6	7301.5
12.5°	7205.2	7209.0	7185.9	7216.7	7216.7
15°	7097.4	7101.2	7082.0	7112.8	7120.5
17.5°	6974.1	6974.1	6966.4	7001.1	7004.9
20°	6827.8	6847.0	6831.6	6870.1	6877.8
22.5°	6662.2	6681.4	6681.4	6723.8	6735.4
25°	6496.6	6508.2	6519.7	6565.9	6577.5
27.5°	6311.8	6334.9	6338.7	6388.8	6400.3
30°	6111.5	6150.0	6169.3	6200.1	6207.8
32.5°	5911.3	5961.3	5984.4	5999.8	6003.7
35°	5680.2	5749.5	5776.5	5788.0	5799.6
37.5°	5456.8	5514.6	5522.3	5564.7	5576.2
40°	5214.2	5283.5	5283.5	5333.6	5345.2
42.5°	4983.2	4998.6	5056.3	5091.0	5106.4
45°	4713.6	4763.7	4806.0	4852.2	4848.4
47.5°	4459.4	4524.9	4536.5	4578.8	4590.4
50°	4216.8	4263.0	4286.1	4320.8	4320.8
52.5°	3916.4	3978.1	4028.1	4047.4	4058.9
55°	3666.1	3681.5	3735.4	3766.3	3774.0
57.5°	3361.9	3400.4	3450.5	3489.0	3508.2
60°	3096.2	3119.3	3161.7	3215.6	3323.4
62.5°	2795.8	2822.8	2876.7	3038.4	2926.7
65°	2499.3	2522.4	2580.2	2630.2	2634.1
67.5°	2218.2	2241.3	2322.1	2337.5	2349.1
70°	1906.2	1937.0	2006.4	2056.4	2075.7
72.5°	1621.3	1648.2	1717.5	1775.3	1794.6
75°	1324.7	1363.2	1448.0	1528.8	1525.0
77.5°	1043.6	1112.9	1182.3	1247.7	1267.0
80°	781.7	835.7	928.1	997.4	1024.4
82.5°	546.8	608.5	700.9	770.2	797.2
85°	335.0	400.5	492.9	566.1	593.1
87.5°	161.7	227.2	327.3	400.5	431.3
90°	7.7	100.1	200.3	273.4	296.5
92.5°	15.4	57.8	130.9	188.7	208.0
95°	27.0	65.5	96.3	138.6	154.0
97.5°	38.5	57.8	84.7	111.7	123.2
100°	53.9	57.8	96.3	100.1	107.8
102.5°	65.5	61.6	92.4	100.1	100.1
105°	80.9	69.3	88.6	142.5	127.1
107.5°	92.4	96.3	84.7	100.1	107.8
110°	104.0	111.7	92.4	107.8	107.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.5	127.1	100.1	100.1	107.8
115°	127.1	142.5	100.1	104.0	104.0
117.5°	138.6	146.3	119.4	111.7	111.7
120°	146.3	150.2	150.2	111.7	119.4
122.5°	154.0	157.9	169.4	123.2	119.4
125°	161.7	161.7	184.8	150.2	130.9
127.5°	169.4	169.4	196.4	177.1	157.9
130°	177.1	169.4	208.0	192.5	184.8
132.5°	184.8	177.1	211.8	208.0	200.3
135°	188.7	184.8	211.8	223.4	219.5
137.5°	196.4	192.5	204.1	234.9	231.1
140°	200.3	200.3	204.1	234.9	242.6
142.5°	204.1	204.1	204.1	231.1	242.6
145°	208.0	211.8	204.1	223.4	238.8
147.5°	211.8	219.5	204.1	219.5	227.2
150°	215.7	223.4	204.1	215.7	219.5
152.5°	219.5	231.1	211.8	211.8	215.7
155°	219.5	234.9	219.5	211.8	211.8
157.5°	223.4	234.9	223.4	211.8	211.8
160°	223.4	238.8	231.1	219.5	215.7
162.5°	227.2	238.8	238.8	227.2	223.4
165°	227.2	234.9	242.6	234.9	227.2
167.5°	231.1	234.9	242.6	238.8	231.1
170°	231.1	234.9	238.8	238.8	231.1
172.5°	231.1	234.9	238.8	234.9	231.1
175°	231.1	231.1	234.9	231.1	223.4
177.5°	231.1	231.1	231.1	227.2	223.4
180°	227.2	227.2	227.2	227.2	227.2

(END OF REPORT)