

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-LD5-32-W-FLUPL-UNV-L850-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-LD5-32-W-FLUPL-UNV-L850-CD4-U  
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

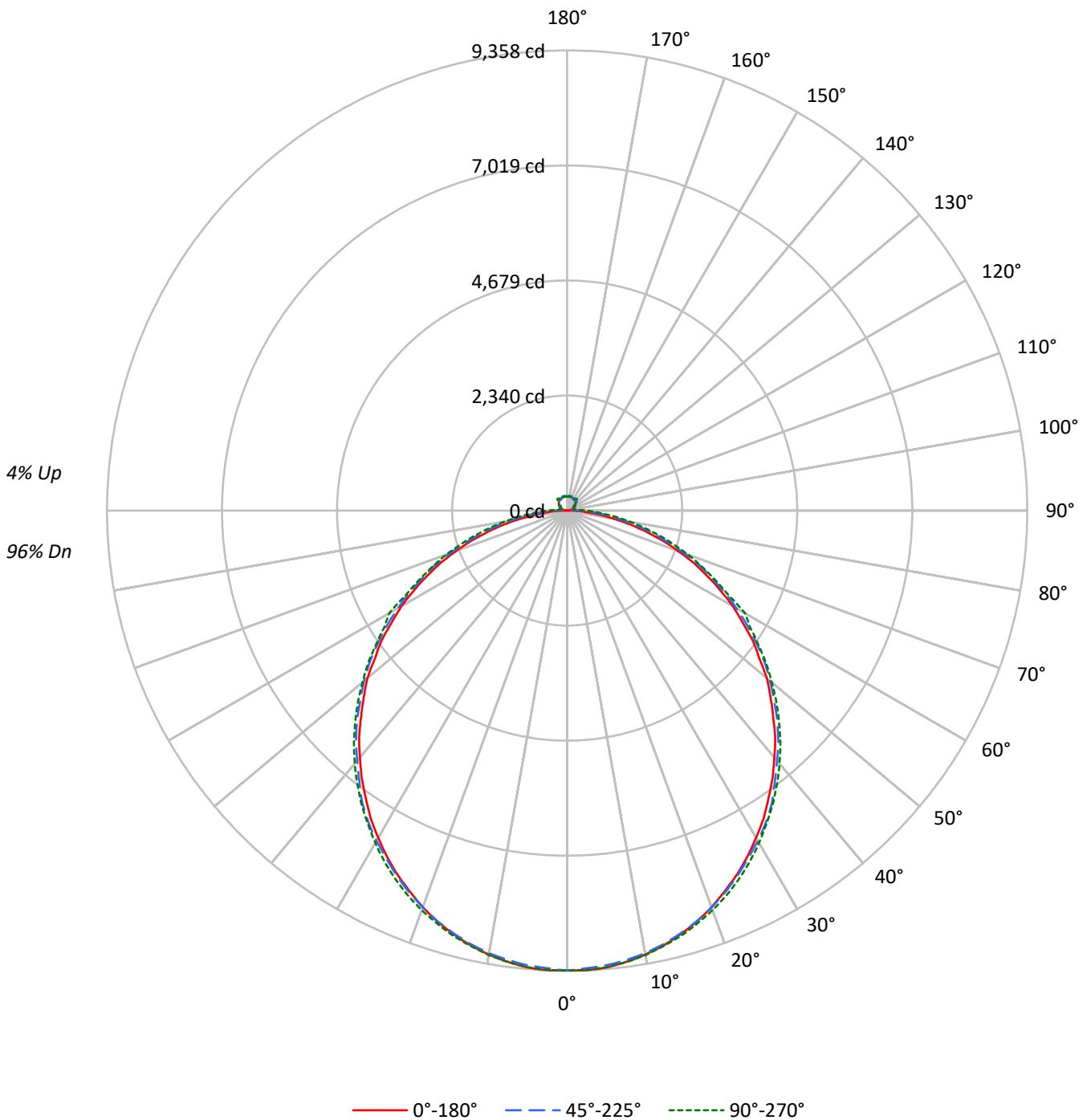
Lumens per Lamp: N/A  
Luminaire Lumens: 27607.1 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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°	13729	13729	13729
5°	13724	13572	13602
10°	13636	13420	13423
15°	13513	13224	13216
20°	13347	13008	12990
25°	13150	12762	12744
30°	12929	12523	12443
35°	12684	12273	12137
40°	12430	11871	11796
45°	12149	11549	11408
50°	11928	11161	10977
55°	11588	10703	10505
60°	11184	10156	10316
65°	10628	9512	9320
70°	9943	8756	8616
75°	9024	7815	7726
80°	7757	6629	6725
85°	6207	5264	5588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	883.9	3.2
10°-20°	2518.6	9.1
20°-30°	3784.3	13.7
30°-40°	4527.7	16.4
40°-50°	4654.9	16.9
50°-60°	4192.2	15.2
60°-70°	3221.9	11.7
70°-80°	1918.2	6.9
80°-90°	695.0	2.5
90°-100°	149.8	0.5
100°-110°	124.5	0.5
110°-120°	146.8	0.5
120°-130°	181.6	0.7
130°-140°	198.3	0.7
140°-150°	170.2	0.6
150°-160°	128.1	0.5
160°-170°	83.2	0.3
170°-180°	28.0	0.1
0°-30°	7186.8	26.0
0°-40°	11714.5	42.4
0°-60°	20561.5	74.5
0°-90°	26396.6	95.6
90°-120°	421.0	1.5
90°-150°	971.2	3.5
90°-180°	1210.0	4.4
0°-180°	27607.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9353	9353	9353	9353	9353	
5°	9324	9319	9281	9315	9319	885
15°	8922	8927	8903	8942	8952	2516
25°	8167	8182	8196	8254	8269	3762
35°	7141	7228	7262	7276	7291	4470
45°	5926	5989	6042	6100	6095	4580
55°	4609	4628	4696	4735	4744	4105
65°	3142	3171	3244	3307	3311	3115
75°	1665	1714	1820	1922	1917	1768
85°	421	504	620	712	746	463
90°	10	126	252	344	373	33
95°	34	82	121	174	194	34
105°	102	87	111	179	160	105
115°	160	179	126	131	131	158
125°	203	203	232	189	165	182
135°	237	232	266	281	276	184
145°	261	266	257	281	300	164
155°	276	295	276	266	266	128
165°	286	295	305	295	286	81
175°	290	290	295	290	281	28
180°	286	286	286	286	286	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-FLUPL-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9353.3	9353.3	9353.3	9353.3	9353.3
2.5°	9358.1	9353.3	9314.6	9343.6	9348.5
5°	9324.3	9319.4	9280.7	9314.6	9319.4
7.5°	9256.5	9256.5	9217.8	9256.5	9261.3
10°	9169.3	9169.3	9140.3	9174.2	9179.0
12.5°	9058.0	9062.8	9033.8	9072.5	9072.5
15°	8922.4	8927.3	8903.1	8941.8	8951.5
17.5°	8767.5	8767.5	8757.8	8801.4	8806.2
20°	8583.5	8607.8	8588.4	8636.8	8646.5
22.5°	8375.4	8399.6	8399.6	8452.8	8467.4
25°	8167.2	8181.7	8196.2	8254.3	8268.9
27.5°	7934.8	7963.9	7968.7	8031.6	8046.2
30°	7683.1	7731.5	7755.7	7794.4	7804.1
32.5°	7431.3	7494.3	7523.3	7542.7	7547.5
35°	7140.9	7228.0	7261.9	7276.4	7290.9
37.5°	6860.1	6932.7	6942.4	6995.6	7010.1
40°	6555.1	6642.2	6642.2	6705.1	6719.7
42.5°	6264.6	6284.0	6356.6	6400.1	6419.5
45°	5925.7	5988.6	6041.9	6100.0	6095.1
47.5°	5606.2	5688.5	5703.0	5756.3	5770.8
50°	5301.2	5359.3	5388.3	5431.9	5431.9
52.5°	4923.6	5001.0	5064.0	5088.2	5102.7
55°	4608.9	4628.2	4696.0	4734.7	4744.4
57.5°	4226.4	4274.8	4337.8	4386.2	4410.4
60°	3892.4	3921.4	3974.7	4042.4	4178.0
62.5°	3514.8	3548.6	3616.4	3819.8	3679.4
65°	3142.0	3171.0	3243.6	3306.6	3311.4
67.5°	2788.6	2817.6	2919.3	2938.6	2953.2
70°	2396.4	2435.2	2522.3	2585.2	2609.4
72.5°	2038.2	2072.1	2159.2	2231.8	2256.0
75°	1665.4	1713.8	1820.3	1922.0	1917.1
77.5°	1312.0	1399.1	1486.3	1568.6	1592.8
80°	982.8	1050.6	1166.7	1253.9	1287.8
82.5°	687.5	764.9	881.1	968.3	1002.1
85°	421.2	503.5	619.7	711.7	745.6
87.5°	203.3	285.6	411.5	503.5	542.2
90°	9.7	125.9	251.7	343.7	372.8
92.5°	19.4	72.6	164.6	237.2	261.4
95°	33.9	82.3	121.0	174.3	193.7
97.5°	48.4	72.6	106.5	140.4	154.9
100°	67.8	72.6	121.0	125.9	135.6
102.5°	82.3	77.5	116.2	125.9	125.9
105°	101.7	87.1	111.3	179.1	159.8
107.5°	116.2	121.0	106.5	125.9	135.6
110°	130.7	140.4	116.2	135.6	135.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	145.2	159.8	125.9	125.9	135.6
115°	159.8	179.1	125.9	130.7	130.7
117.5°	174.3	184.0	150.1	140.4	140.4
120°	184.0	188.8	188.8	140.4	150.1
122.5°	193.7	198.5	213.0	154.9	150.1
125°	203.3	203.3	232.4	188.8	164.6
127.5°	213.0	213.0	246.9	222.7	198.5
130°	222.7	213.0	261.4	242.1	232.4
132.5°	232.4	222.7	266.3	261.4	251.7
135°	237.2	232.4	266.3	280.8	276.0
137.5°	246.9	242.1	256.6	295.3	290.5
140°	251.7	251.7	256.6	295.3	305.0
142.5°	256.6	256.6	256.6	290.5	305.0
145°	261.4	266.3	256.6	280.8	300.2
147.5°	266.3	276.0	256.6	276.0	285.6
150°	271.1	280.8	256.6	271.1	276.0
152.5°	276.0	290.5	266.3	266.3	271.1
155°	276.0	295.3	276.0	266.3	266.3
157.5°	280.8	295.3	280.8	266.3	266.3
160°	280.8	300.2	290.5	276.0	271.1
162.5°	285.6	300.2	300.2	285.6	280.8
165°	285.6	295.3	305.0	295.3	285.6
167.5°	290.5	295.3	305.0	300.2	290.5
170°	290.5	295.3	300.2	300.2	290.5
172.5°	290.5	295.3	300.2	295.3	290.5
175°	290.5	290.5	295.3	290.5	280.8
177.5°	290.5	290.5	290.5	285.6	280.8
180°	285.6	285.6	285.6	285.6	285.6

(END OF REPORT)