

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-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-LD5-28-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

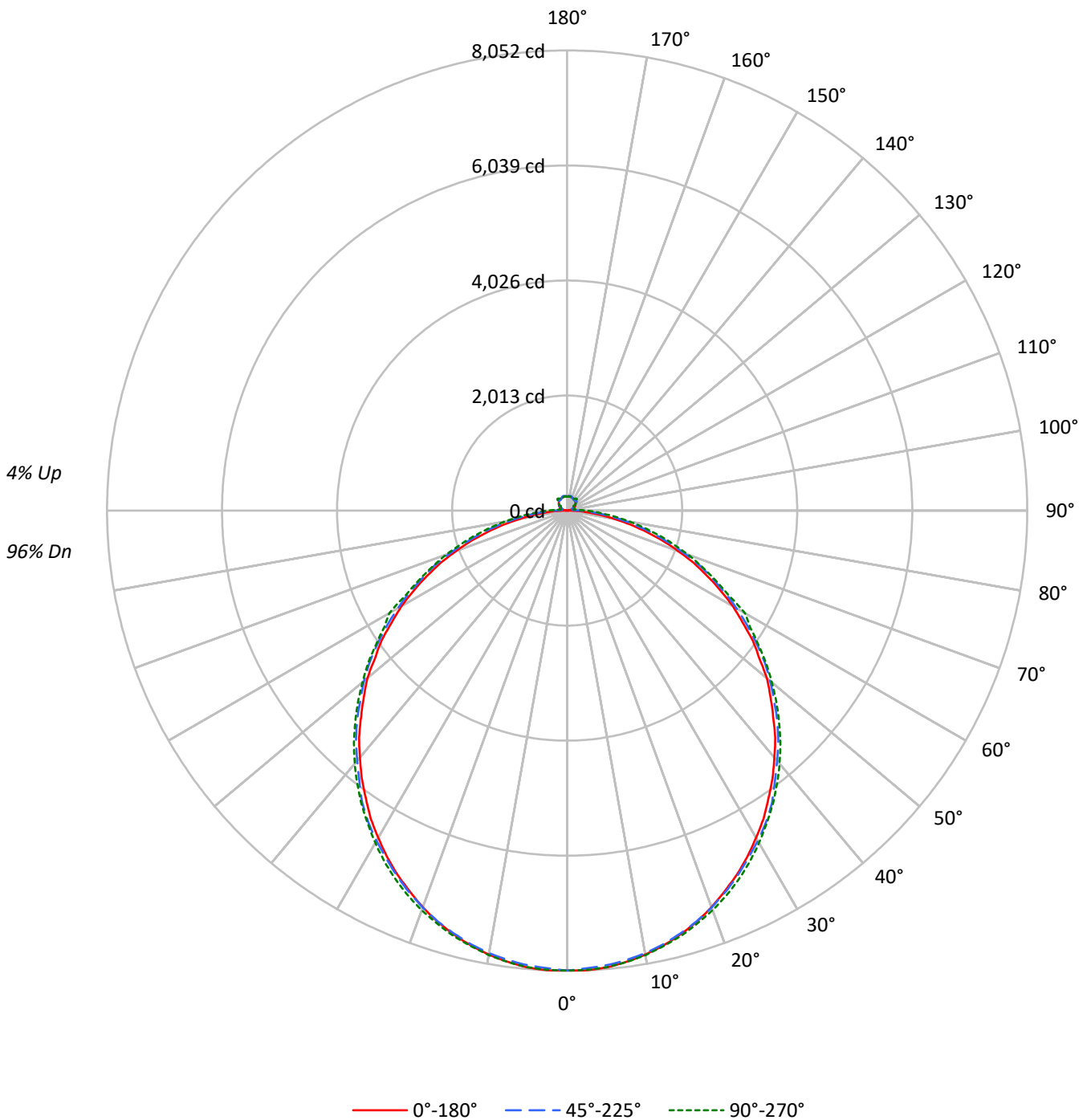
Lumens per Lamp: N/A
Luminaire Lumens: 23754.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (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	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°	11813	11813	11813
5°	11808	11678	11703
10°	11733	11547	11549
15°	11627	11379	11372
20°	11484	11193	11177
25°	11315	10981	10965
30°	11124	10776	10707
35°	10914	10560	10443
40°	10695	10214	10149
45°	10453	9937	9816
50°	10263	9603	9445
55°	9970	9209	9039
60°	9623	8738	8876
65°	9144	8184	8020
70°	8555	7534	7413
75°	7765	6725	6648
80°	6674	5704	5786
85°	5340	4529	4808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.5	3.2
10°-20°	2167.1	9.1
20°-30°	3256.2	13.7
30°-40°	3895.8	16.4
40°-50°	4005.2	16.9
50°-60°	3607.1	15.2
60°-70°	2772.2	11.7
70°-80°	1650.4	6.9
80°-90°	598.0	2.5
90°-100°	128.9	0.5
100°-110°	107.1	0.5
110°-120°	126.3	0.5
120°-130°	156.3	0.7
130°-140°	170.6	0.7
140°-150°	146.5	0.6
150°-160°	110.2	0.5
160°-170°	71.6	0.3
170°-180°	24.1	0.1
0°-30°	6183.7	26.0
0°-40°	10079.5	42.4
0°-60°	17691.8	74.5
0°-90°	22712.5	95.6
90°-120°	362.3	1.5
90°-150°	835.6	3.5
90°-180°	1041.0	4.4
0°-180°	23754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8048	8048	8048	8048	8048	
5°	8023	8019	7985	8015	8019	761
15°	7677	7681	7660	7694	7702	2165
25°	7027	7040	7052	7102	7115	3237
35°	6144	6219	6248	6261	6273	3846
45°	5099	5153	5199	5249	5244	3941
55°	3966	3982	4041	4074	4082	3532
65°	2704	2728	2791	2845	2849	2680
75°	1433	1475	1566	1654	1650	1521
85°	362	433	533	612	642	398
90°	8	108	217	296	321	29
95°	29	71	104	150	167	29
105°	88	75	96	154	138	91
115°	138	154	108	112	112	136
125°	175	175	200	162	142	157
135°	204	200	229	242	237	159
145°	225	229	221	242	258	141
155°	237	254	237	229	229	110
165°	246	254	262	254	246	70
175°	250	250	254	250	242	24
180°	246	246	246	246	246	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-FLUPL-UNV-L850-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8047.9	8047.9	8047.9	8047.9	8047.9
2.5°	8052.1	8047.9	8014.6	8039.6	8043.7
5°	8022.9	8018.7	7985.4	8014.6	8018.7
7.5°	7964.6	7964.6	7931.3	7964.6	7968.8
10°	7889.6	7889.6	7864.6	7893.8	7897.9
12.5°	7793.8	7798.0	7773.0	7806.3	7806.3
15°	7677.2	7681.3	7660.5	7693.8	7702.2
17.5°	7543.9	7543.9	7535.5	7573.0	7577.2
20°	7385.6	7406.4	7389.7	7431.4	7439.7
22.5°	7206.5	7227.3	7227.3	7273.1	7285.6
25°	7027.3	7039.8	7052.3	7102.3	7114.8
27.5°	6827.4	6852.4	6856.5	6910.7	6923.2
30°	6610.8	6652.4	6673.3	6706.6	6714.9
32.5°	6394.2	6448.3	6473.3	6490.0	6494.1
35°	6144.2	6219.2	6248.4	6260.9	6273.4
37.5°	5902.6	5965.1	5973.4	6019.3	6031.8
40°	5640.2	5715.2	5715.2	5769.3	5781.8
42.5°	5390.3	5406.9	5469.4	5506.9	5523.6
45°	5098.7	5152.8	5198.6	5248.6	5244.5
47.5°	4823.7	4894.6	4907.1	4952.9	4965.4
50°	4561.3	4611.3	4636.3	4673.8	4673.8
52.5°	4236.4	4303.0	4357.2	4378.0	4390.5
55°	3965.6	3982.3	4040.6	4073.9	4082.3
57.5°	3636.6	3678.2	3732.4	3774.0	3794.8
60°	3349.1	3374.1	3419.9	3478.3	3594.9
62.5°	3024.2	3053.4	3111.7	3286.6	3165.8
65°	2703.5	2728.5	2790.9	2845.1	2849.3
67.5°	2399.4	2424.4	2511.8	2528.5	2541.0
70°	2062.0	2095.3	2170.3	2224.4	2245.2
72.5°	1753.7	1782.9	1857.8	1920.3	1941.2
75°	1433.0	1474.6	1566.3	1653.7	1649.6
77.5°	1128.9	1203.9	1278.8	1349.6	1370.5
80°	845.6	903.9	1003.9	1078.9	1108.0
82.5°	591.5	658.2	758.1	833.1	862.3
85°	362.4	433.2	533.2	612.3	641.5
87.5°	175.0	245.8	354.1	433.2	466.5
90°	8.3	108.3	216.6	295.8	320.7
92.5°	16.7	62.5	141.6	204.1	224.9
95°	29.2	70.8	104.1	150.0	166.6
97.5°	41.7	62.5	91.6	120.8	133.3
100°	58.3	62.5	104.1	108.3	116.6
102.5°	70.8	66.6	100.0	108.3	108.3
105°	87.5	75.0	95.8	154.1	137.5
107.5°	100.0	104.1	91.6	108.3	116.6
110°	112.5	120.8	100.0	116.6	116.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.0	137.5	108.3	108.3	116.6
115°	137.5	154.1	108.3	112.5	112.5
117.5°	150.0	158.3	129.1	120.8	120.8
120°	158.3	162.5	162.5	120.8	129.1
122.5°	166.6	170.8	183.3	133.3	129.1
125°	175.0	175.0	199.9	162.5	141.6
127.5°	183.3	183.3	212.4	191.6	170.8
130°	191.6	183.3	224.9	208.3	199.9
132.5°	199.9	191.6	229.1	224.9	216.6
135°	204.1	199.9	229.1	241.6	237.4
137.5°	212.4	208.3	220.8	254.1	249.9
140°	216.6	216.6	220.8	254.1	262.4
142.5°	220.8	220.8	220.8	249.9	262.4
145°	224.9	229.1	220.8	241.6	258.3
147.5°	229.1	237.4	220.8	237.4	245.8
150°	233.3	241.6	220.8	233.3	237.4
152.5°	237.4	249.9	229.1	229.1	233.3
155°	237.4	254.1	237.4	229.1	229.1
157.5°	241.6	254.1	241.6	229.1	229.1
160°	241.6	258.3	249.9	237.4	233.3
162.5°	245.8	258.3	258.3	245.8	241.6
165°	245.8	254.1	262.4	254.1	245.8
167.5°	249.9	254.1	262.4	258.3	249.9
170°	249.9	254.1	258.3	258.3	249.9
172.5°	249.9	254.1	258.3	254.1	249.9
175°	249.9	249.9	254.1	249.9	241.6
177.5°	249.9	249.9	249.9	245.8	241.6
180°	245.8	245.8	245.8	245.8	245.8

(END OF REPORT)