

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: **4ILED-LD5-11-W-FL-UNV-L850-CD1-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-11-W-FL-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

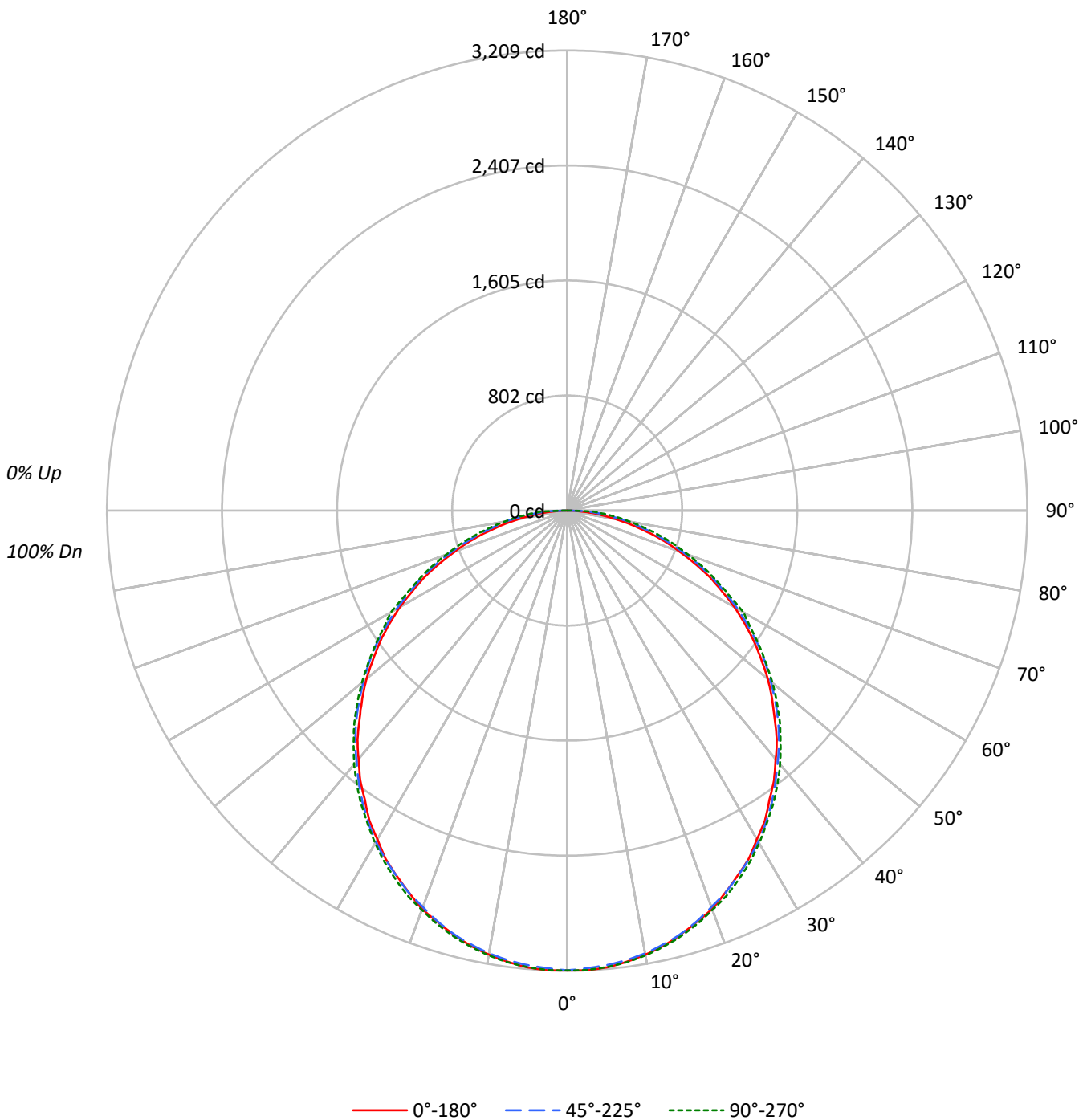
Lumens per Lamp: N/A
Luminaire Lumens: 9081.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9415	9415	9415
5°	9401	9301	9328
10°	9333	9191	9211
15°	9240	9062	9072
20°	9155	8885	8905
25°	9000	8729	8740
30°	8843	8574	8544
35°	8666	8357	8334
40°	8494	8109	8113
45°	8287	7889	7856
50°	8104	7606	7558
55°	7868	7317	7232
60°	7580	6934	7009
65°	7222	6494	6435
70°	6684	5924	5920
75°	6023	5291	5343
80°	5163	4701	4620
85°	4092	3483	3847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	3.3
10°-20°	864.1	9.5
20°-30°	1300.2	14.3
30°-40°	1555.5	17.1
40°-50°	1603.0	17.7
50°-60°	1445.2	15.9
60°-70°	1110.0	12.2
70°-80°	668.3	7.4
80°-90°	231.7	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2467.4	27.2
0°-40°	4022.9	44.3
0°-60°	7071.0	77.9
0°-90°	9081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3207	3207	3207	3207	3207	
5°	3197	3194	3182	3194	3196	303
15°	3061	3064	3058	3071	3072	864
25°	2811	2812	2814	2830	2835	1296
35°	2460	2485	2487	2502	2503	1542
45°	2046	2064	2080	2097	2099	1582
55°	1592	1605	1623	1633	1633	1421
65°	1095	1099	1125	1138	1143	1079
75°	581	597	632	655	663	617
85°	156	181	216	245	257	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3207.1	3207.1	3207.1	3207.1	3207.1
2.5°	3208.8	3207.1	3194.0	3203.9	3207.1
5°	3197.3	3194.0	3182.5	3194.0	3195.6
7.5°	3174.3	3172.6	3162.7	3174.3	3177.5
10°	3144.6	3144.6	3134.8	3146.3	3149.6
12.5°	3108.5	3106.8	3098.6	3111.8	3115.0
15°	3060.8	3064.1	3057.5	3070.6	3072.3
17.5°	3008.1	3009.8	3004.8	3016.4	3021.3
20°	2957.2	2948.9	2942.4	2962.1	2963.7
22.5°	2883.1	2886.4	2884.8	2902.9	2906.2
25°	2810.8	2812.4	2814.1	2830.5	2835.4
27.5°	2740.1	2738.4	2743.3	2756.5	2761.4
30°	2646.3	2659.5	2667.7	2677.6	2679.2
32.5°	2565.7	2570.7	2580.5	2587.1	2588.7
35°	2460.5	2485.1	2486.8	2501.6	2503.2
37.5°	2370.0	2378.2	2386.4	2404.5	2407.8
40°	2263.1	2274.6	2284.5	2300.9	2310.8
42.5°	2164.4	2177.6	2187.4	2202.2	2203.9
45°	2046.0	2064.1	2080.5	2097.0	2098.6
47.5°	1937.4	1955.5	1968.7	1981.9	1983.5
50°	1827.3	1842.1	1853.6	1870.0	1870.0
52.5°	1705.5	1723.6	1741.7	1748.3	1748.3
55°	1592.1	1605.2	1623.3	1633.2	1633.2
57.5°	1468.7	1475.3	1495.0	1513.1	1513.1
60°	1347.0	1355.2	1375.0	1388.1	1419.4
62.5°	1217.1	1230.2	1243.4	1286.1	1268.1
65°	1095.4	1098.7	1125.0	1138.1	1143.1
67.5°	960.5	972.0	998.3	1013.1	1023.0
70°	832.2	847.0	870.0	888.1	896.4
72.5°	710.5	717.1	746.7	771.4	782.9
75°	580.6	597.0	631.6	654.6	662.8
77.5°	457.2	483.5	516.4	597.0	551.0
80°	348.7	368.4	427.6	430.9	442.4
82.5°	243.4	266.4	305.9	332.2	345.4
85°	156.2	180.9	215.5	245.1	256.6
87.5°	72.4	98.7	143.1	176.0	185.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)