

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-LD5-16-W-FL-UNV-L835-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-FL-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

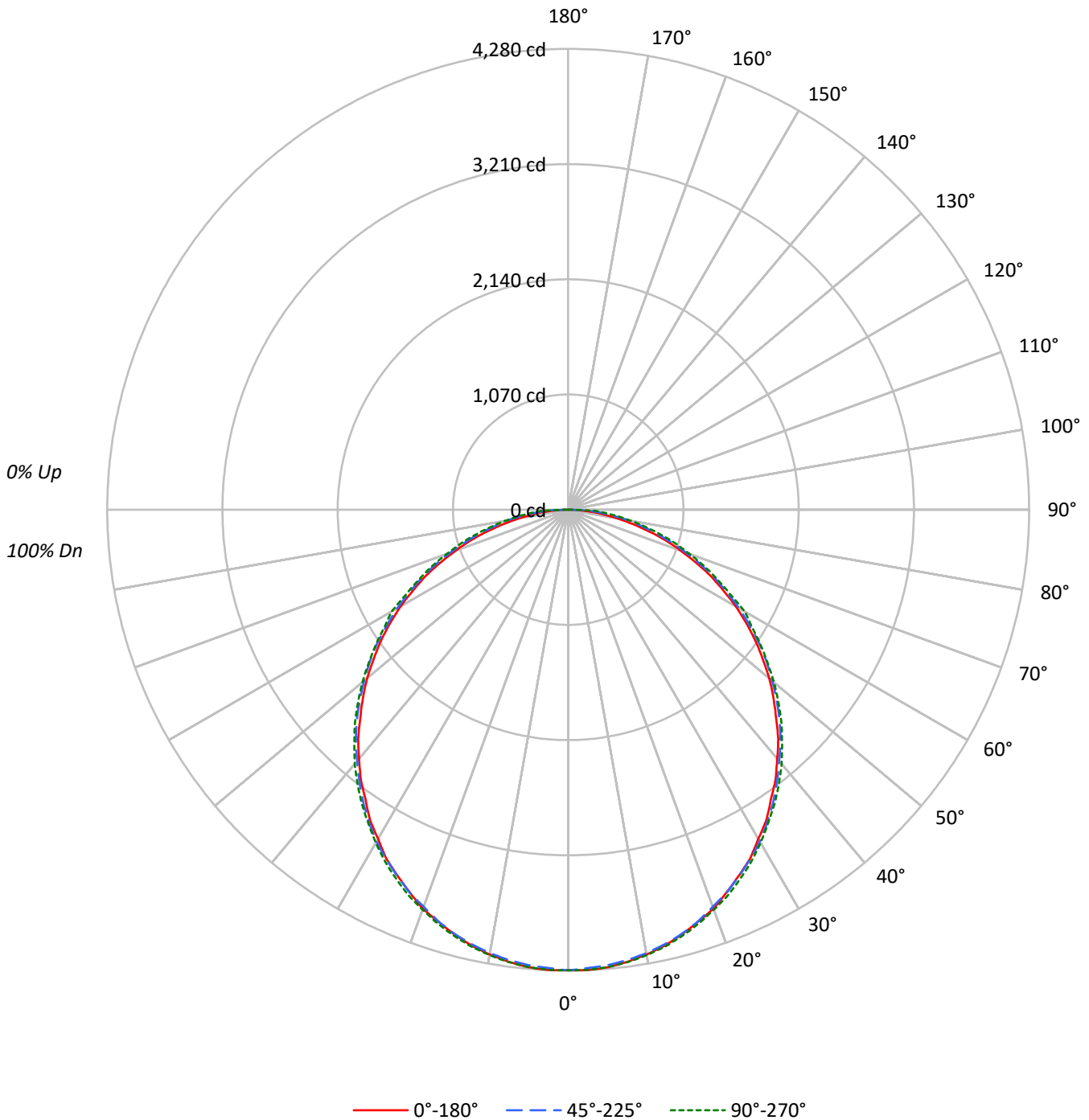
Lumens per Lamp: N/A
Luminaire Lumens: 12113.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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	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°	12559	12559	12559
5°	12540	12407	12442
10°	12449	12259	12287
15°	12325	12088	12101
20°	12212	11852	11879
25°	12004	11643	11658
30°	11795	11436	11396
35°	11559	11147	11117
40°	11330	10817	10821
45°	11054	10524	10478
50°	10809	10145	10081
55°	10494	9760	9647
60°	10111	9249	9349
65°	9633	8662	8583
70°	8916	7902	7896
75°	8034	7057	7126
80°	6886	6271	6163
85°	5459	4646	5130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.3	3.3
10°-20°	1152.6	9.5
20°-30°	1734.3	14.3
30°-40°	2074.9	17.1
40°-50°	2138.2	17.7
50°-60°	1927.7	15.9
60°-70°	1480.6	12.2
70°-80°	891.4	7.4
80°-90°	309.1	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°	3291.2	27.2
0°-40°	5366.0	44.3
0°-60°	9431.9	77.9
0°-90°	12113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4278	4278	4278	4278	4278	
5°	4265	4260	4245	4260	4263	405
15°	4083	4087	4078	4096	4098	1152
25°	3749	3751	3754	3776	3782	1729
35°	3282	3315	3317	3337	3339	2057
45°	2729	2753	2775	2797	2799	2110
55°	2124	2141	2165	2178	2178	1895
65°	1461	1466	1501	1518	1525	1440
75°	774	796	842	873	884	823
85°	208	241	287	327	342	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4278.0	4278.0	4278.0	4278.0	4278.0
2.5°	4280.2	4278.0	4260.4	4273.6	4278.0
5°	4264.8	4260.4	4245.1	4260.4	4262.6
7.5°	4234.1	4231.9	4218.7	4234.1	4238.5
10°	4194.6	4194.6	4181.4	4196.8	4201.2
12.5°	4146.3	4144.1	4133.2	4150.7	4155.1
15°	4082.7	4087.1	4078.3	4095.9	4098.1
17.5°	4012.5	4014.7	4008.1	4023.5	4030.1
20°	3944.5	3933.5	3924.8	3951.1	3953.3
22.5°	3845.8	3850.2	3848.0	3872.1	3876.5
25°	3749.2	3751.4	3753.6	3775.6	3782.2
27.5°	3654.9	3652.7	3659.3	3676.9	3683.4
30°	3529.9	3547.4	3558.4	3571.5	3573.7
32.5°	3422.4	3428.9	3442.1	3450.9	3453.1
35°	3282.0	3314.9	3317.1	3336.8	3339.0
37.5°	3161.3	3172.3	3183.2	3207.4	3211.8
40°	3018.7	3034.1	3047.2	3069.2	3082.3
42.5°	2887.1	2904.6	2917.8	2937.5	2939.7
45°	2729.1	2753.3	2775.2	2797.1	2799.3
47.5°	2584.3	2608.5	2626.0	2643.6	2645.8
50°	2437.3	2457.1	2472.4	2494.4	2494.4
52.5°	2275.0	2299.1	2323.3	2332.0	2332.0
55°	2123.6	2141.2	2165.3	2178.5	2178.5
57.5°	1959.1	1967.9	1994.2	2018.3	2018.3
60°	1796.7	1807.7	1834.0	1851.6	1893.3
62.5°	1623.4	1641.0	1658.5	1715.6	1691.4
65°	1461.1	1465.5	1500.6	1518.1	1524.7
67.5°	1281.2	1296.6	1331.7	1351.4	1364.6
70°	1110.1	1129.8	1160.5	1184.7	1195.6
72.5°	947.7	956.5	996.0	1028.9	1044.3
75°	774.4	796.4	842.4	873.1	884.1
77.5°	609.9	645.0	688.9	796.4	734.9
80°	465.1	491.4	570.4	574.8	590.1
82.5°	324.7	355.4	408.1	443.2	460.7
85°	208.4	241.3	287.4	326.9	342.2
87.5°	96.5	131.6	190.9	234.7	247.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)