

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-CLWG-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 (P34178)
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-CLWG-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

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

Summary

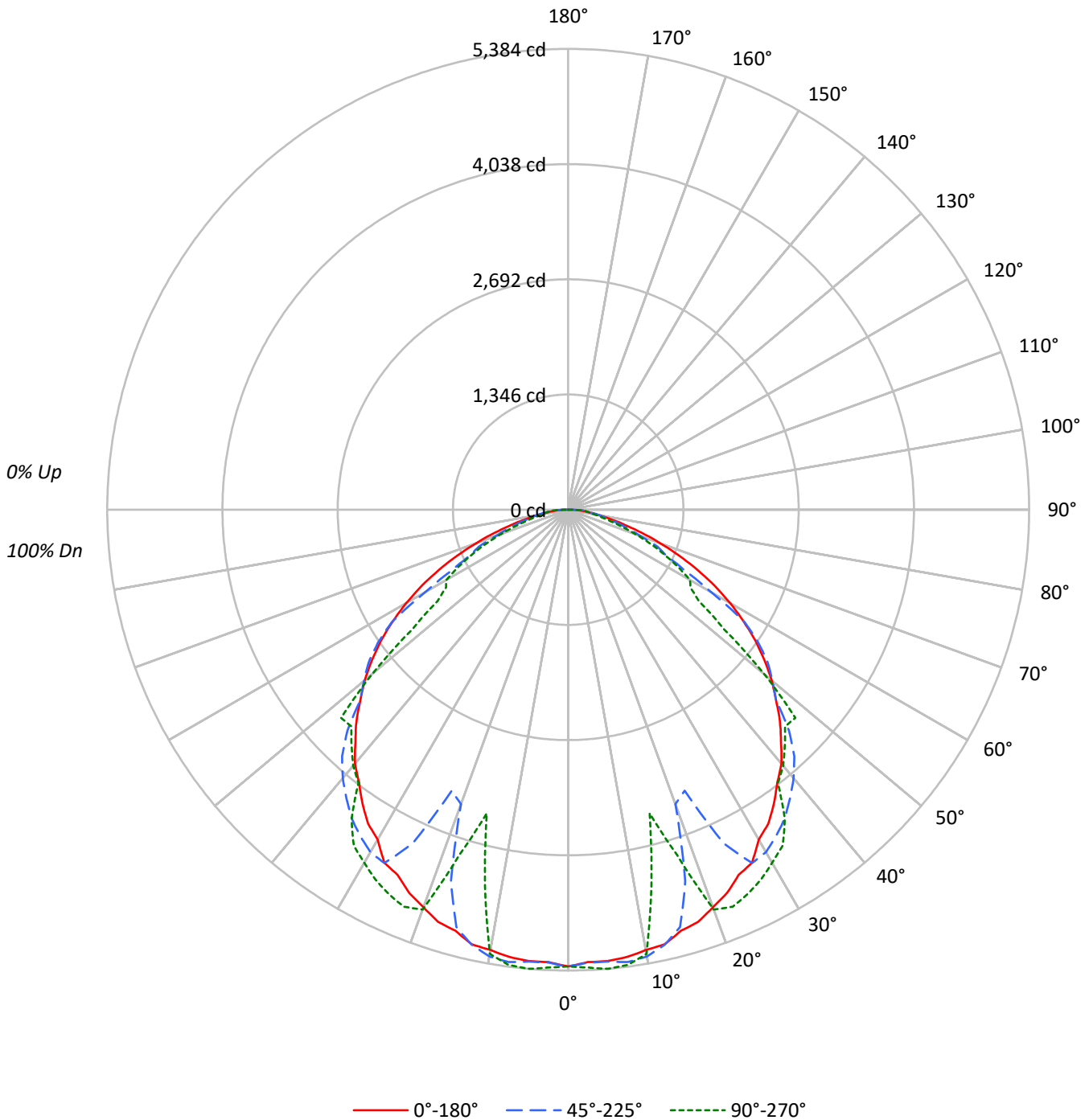
Lumens per Lamp: N/A
Luminaire Lumens: 13818.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
Input Voltage (V):
Input Current (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



TEST NUMBER: P#
CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L835-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L835-CD2-U

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15665	15665	15665
5°	15568	15486	15717
10°	15504	15535	15407
15°	15374	14957	10846
20°	15304	11052	14939
25°	15076	13347	15278
30°	14869	14844	15190
35°	14753	14806	14691
40°	14544	14542	13712
45°	14166	13828	13404
50°	13759	12776	12113
55°	13185	12225	8249
60°	12298	9759	8115
65°	11008	7244	6991
70°	9164	6156	5550
75°	7102	4908	4085
80°	5295	4149	3116
85°	4540	3475	3124



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L835-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	3.7
10°-20°	1342.8	9.7
20°-30°	2141.1	15.5
30°-40°	2569.8	18.6
40°-50°	2733.1	19.8
50°-60°	2236.0	16.2
60°-70°	1417.7	10.3
70°-80°	654.9	4.7
80°-90°	216.0	1.6
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°	3990.6	28.9
0°-40°	6560.4	47.5
0°-60°	11529.4	83.4
0°-90°	13818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5336	5336	5336	5336	5336	
5°	5294	5297	5299	5340	5384	503
15°	5093	5172	5046	3976	3673	1443
25°	4709	4722	4303	4913	4957	2181
35°	4189	3140	4406	4489	4412	2617
45°	3498	3513	3647	3557	3581	2694
55°	2668	2808	2712	2102	1863	2376
65°	1670	1698	1255	1264	1242	1646
75°	685	650	586	542	507	750
85°	173	189	215	215	208	187
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-16-W-CLWG-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5336.1	5336.1	5336.1	5336.1	5336.1
2.5°	5290.1	5298.8	5296.6	5336.1	5353.7
5°	5294.4	5296.6	5298.8	5340.5	5384.4
7.5°	5270.3	5316.4	5331.7	5316.4	5362.5
10°	5224.2	5265.9	5298.8	5252.8	5268.1
12.5°	5200.1	5261.5	5206.7	4980.7	4489.2
15°	5092.6	5171.6	5046.5	3975.8	3673.0
17.5°	5048.7	5101.4	4548.4	3655.4	4228.1
20°	4943.4	5015.8	3659.8	4699.8	4971.9
22.5°	4846.8	4899.5	3552.3	4943.4	5020.2
25°	4708.6	4721.8	4302.7	4912.7	4956.6
27.5°	4649.4	4451.9	4653.8	4849.0	4873.2
30°	4449.7	4043.8	4618.7	4761.3	4763.5
32.5°	4348.8	3521.6	4519.9	4634.0	4658.1
35°	4188.6	3139.8	4405.8	4489.2	4412.4
37.5°	4013.1	3085.0	4254.4	4210.5	4024.0
40°	3874.8	3365.8	4096.5	3824.4	3905.6
42.5°	3679.6	3536.9	3907.8	3730.0	3745.4
45°	3497.5	3512.8	3646.7	3556.7	3580.8
47.5°	3291.2	3392.1	3289.0	3407.5	3598.4
50°	3102.5	3210.0	3113.5	3308.8	2997.2
52.5°	2887.5	3021.3	2940.1	2661.5	2299.5
55°	2668.1	2808.5	2712.0	2102.0	1862.8
57.5°	2428.9	2545.2	2444.3	1722.4	1691.7
60°	2185.4	2277.5	1935.2	1568.8	1643.4
62.5°	1928.6	1985.7	1527.1	1445.9	1441.5
65°	1669.7	1698.3	1255.0	1263.8	1241.9
67.5°	1399.9	1413.0	1130.0	1070.7	1037.8
70°	1141.0	1132.2	904.0	871.1	840.4
72.5°	904.0	862.3	735.0	691.2	653.9
75°	684.6	649.5	585.8	542.0	506.8
77.5°	509.0	489.3	458.6	463.0	388.4
80°	357.6	359.8	377.4	320.3	298.4
82.5°	247.9	261.1	269.9	265.5	258.9
85°	173.3	188.7	215.0	215.0	208.4
87.5°	87.8	129.5	173.3	184.3	179.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)