

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-UNV-L840-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 (P34173)
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-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

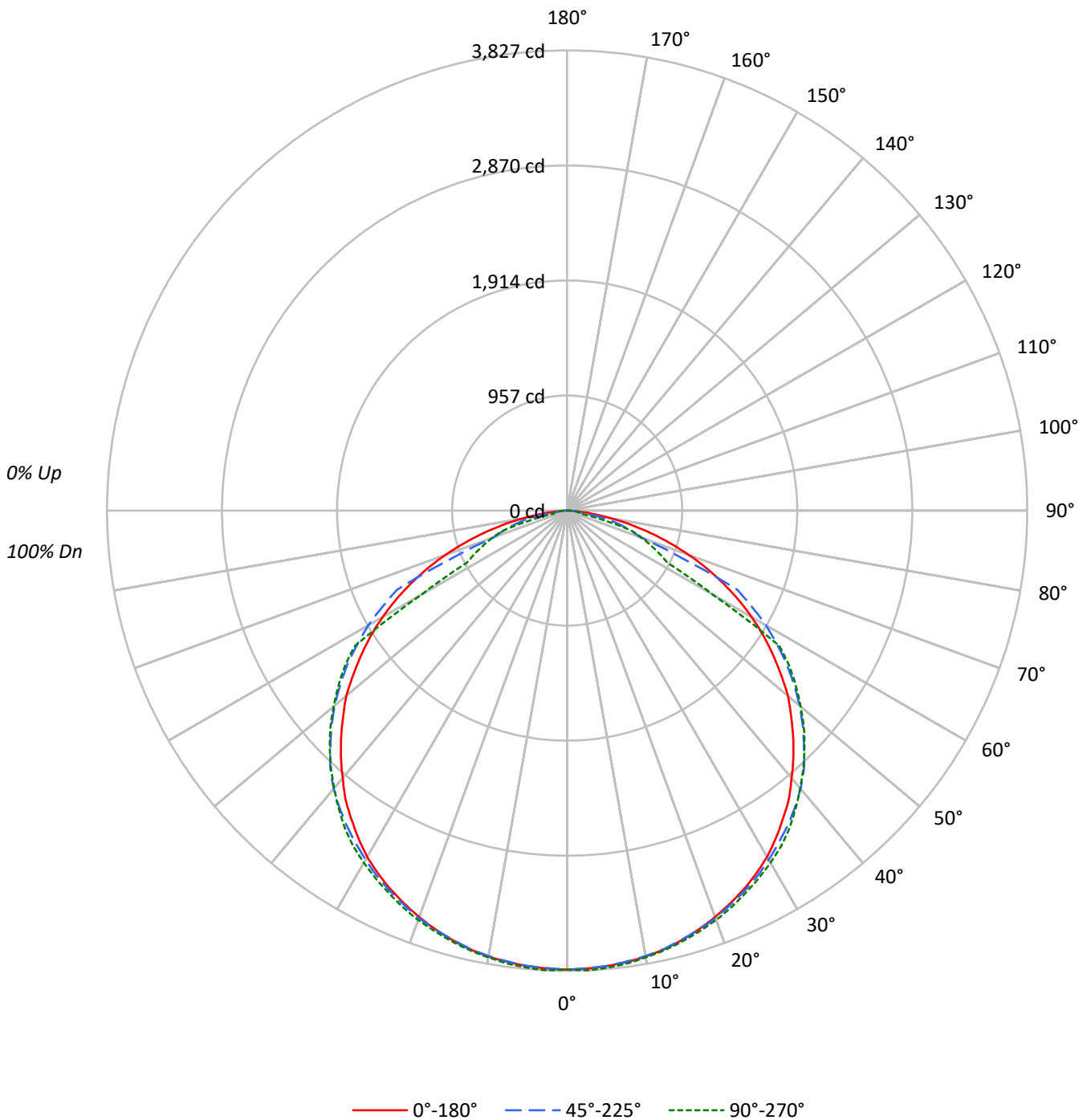
Lumens per Lamp: N/A
Luminaire Lumens: 11018.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11208	11208	11208
5°	11182	11105	11140
10°	11178	11029	11037
15°	11159	10942	10951
20°	11138	10887	10887
25°	11124	10825	10817
30°	11112	10775	10784
35°	11021	10746	10732
40°	10901	10725	10586
45°	10765	10563	10450
50°	10634	10357	10244
55°	10317	10055	9992
60°	9977	9631	6938
65°	9443	9032	4759
70°	8634	4400	4358
75°	7382	3822	2721
80°	5471	2257	1111
85°	2709	1130	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.2	3.3
10°-20°	1045.7	9.5
20°-30°	1612.4	14.6
30°-40°	1996.5	18.1
40°-50°	2125.3	19.3
50°-60°	1961.2	17.8
60°-70°	1255.7	11.4
70°-80°	565.6	5.1
80°-90°	93.4	0.8
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°	3020.3	27.4
0°-40°	5016.8	45.5
0°-60°	9103.3	82.6
0°-90°	11018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3818	3818	3818	3818	3818	
5°	3803	3809	3800	3810	3816	362
15°	3696	3702	3692	3710	3709	1044
25°	3474	3484	3490	3512	3509	1602
35°	3129	3161	3198	3231	3224	1959
45°	2658	2713	2786	2804	2792	2051
55°	2088	2164	2231	2267	2256	1867
65°	1432	1501	1565	864	845	1415
75°	712	774	456	468	338	756
85°	103	78	70	74	68	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3818.0	3818.0	3818.0	3818.0	<i>3818.0</i>
2.5°	<i>3812.0</i>	<i>3819.6</i>	<i>3808.9</i>	<i>3819.6</i>	<i>3827.2</i>
5°	3802.8	3808.9	3799.8	3810.4	<i>3816.5</i>
7.5°	3787.6	3793.7	3783.1	3793.7	<i>3799.8</i>
10°	3766.3	3769.4	3761.8	3772.4	<i>3773.9</i>
12.5°	3735.9	3739.0	3732.9	3743.5	<i>3745.1</i>
15°	3696.4	3702.5	3691.8	3710.1	<i>3708.6</i>
17.5°	3650.8	3656.9	3652.3	3666.0	<i>3667.5</i>
20°	3597.6	3603.6	3605.2	3621.9	<i>3623.4</i>
22.5°	3538.3	3547.4	3548.9	3571.7	<i>3570.2</i>
25°	3474.4	3483.5	3489.6	3512.4	<i>3509.4</i>
27.5°	3404.5	3416.6	3425.7	3448.6	<i>3448.6</i>
30°	3325.4	3342.1	3352.8	3383.2	<i>3381.7</i>
32.5°	3231.1	3263.1	3275.2	3313.2	<i>3310.2</i>
35°	3129.2	3161.2	3197.7	3231.1	<i>3223.5</i>
37.5°	3028.9	3060.8	3111.0	3130.8	<i>3121.6</i>
40°	2904.2	2957.4	3021.3	3028.9	<i>3015.2</i>
42.5°	2785.6	2828.2	2914.9	2919.4	<i>2907.2</i>
45°	2657.9	2712.6	2785.6	2803.9	<i>2791.7</i>
47.5°	2525.6	2572.7	2657.9	2680.7	<i>2671.6</i>
50°	2397.9	2440.4	2524.1	2546.9	<i>2534.7</i>
52.5°	2241.3	2305.1	2376.6	2413.1	<i>2399.4</i>
55°	2087.7	2163.7	2230.6	2267.1	<i>2256.5</i>
57.5°	1934.1	2017.7	2067.9	2118.1	<i>2092.2</i>
60°	1772.9	1855.0	1909.8	1887.0	<i>1405.0</i>
62.5°	1605.7	1684.7	1730.4	1160.2	<i>941.2</i>
65°	1432.3	1500.8	1564.6	863.7	<i>845.4</i>
67.5°	1256.0	1324.4	1041.6	767.9	<i>751.1</i>
70°	1075.0	1138.9	646.2	669.0	<i>659.9</i>
72.5°	892.5	953.4	555.0	580.8	<i>568.7</i>
75°	711.6	773.9	456.2	468.3	<i>337.6</i>
77.5°	542.8	533.7	368.0	258.5	<i>115.6</i>
80°	369.5	246.3	205.3	108.0	<i>106.4</i>
82.5°	229.6	165.7	86.7	95.8	<i>94.3</i>
85°	103.4	77.5	69.9	74.5	<i>68.4</i>
87.5°	36.5	38.0	42.6	39.5	<i>36.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)