

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-WG-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 (P34174)
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-WG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

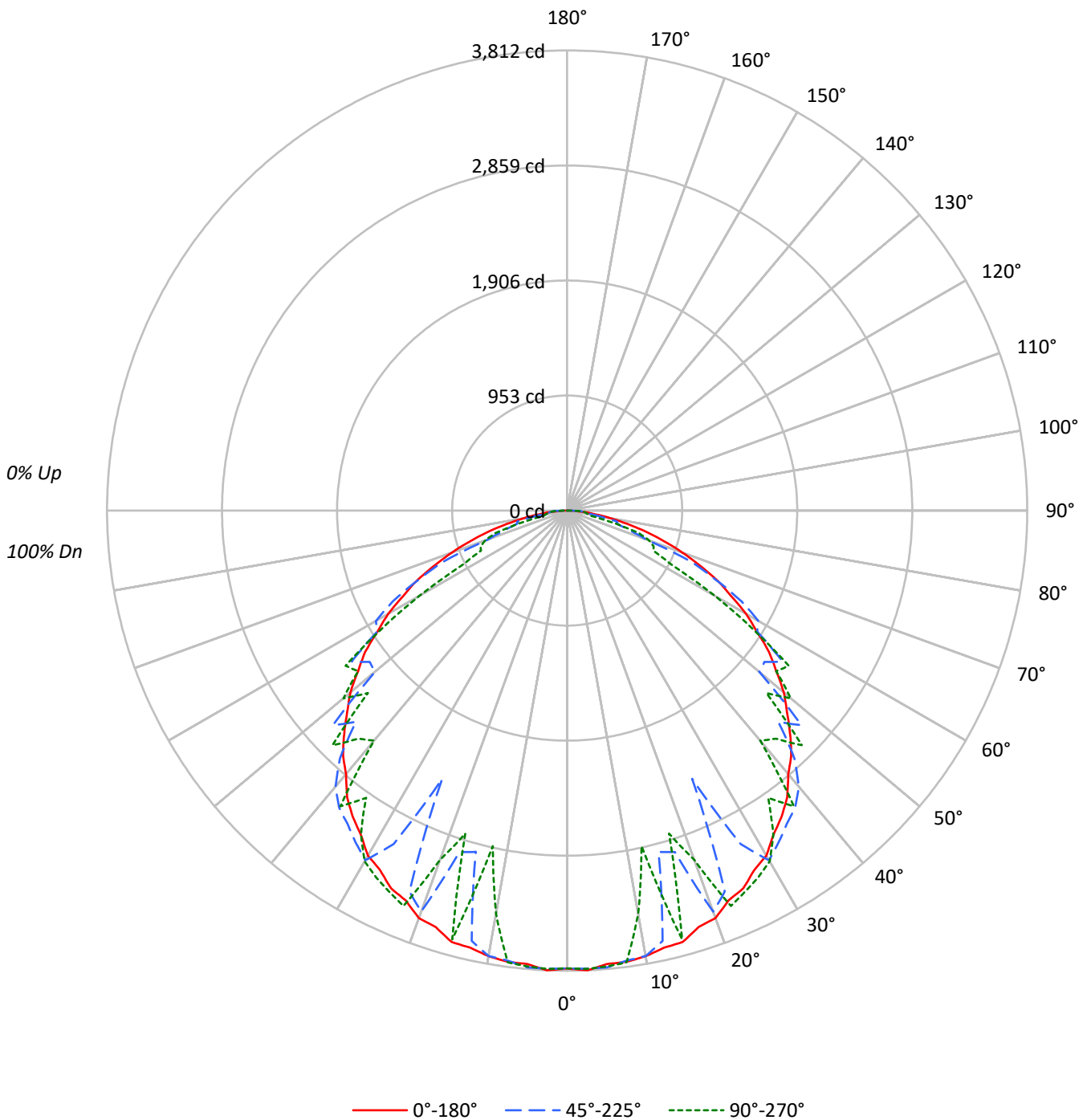
Lumens per Lamp: N/A
Luminaire Lumens: 10428.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	100	97	106	102	98	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11133	11133	11133
5°	11089	11101	11066
10°	11124	10985	9922
15°	11169	8676	10857
20°	11119	10676	9252
25°	11057	7603	10742
30°	11026	10746	10697
35°	10904	10655	9670
40°	10696	10596	8734
45°	10581	9381	10291
50°	10392	8523	9778
55°	10092	9822	9925
60°	9627	9225	6984
65°	9083	7865	4434
70°	8133	4690	4770
75°	7004	3605	3273
80°	5426	2976	1890
85°	3903	2286	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	3.4
10°-20°	959.2	9.2
20°-30°	1487.3	14.3
30°-40°	1906.8	18.3
40°-50°	1952.7	18.7
50°-60°	1851.7	17.8
60°-70°	1186.0	11.4
70°-80°	576.3	5.5
80°-90°	148.8	1.4
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°	2805.7	26.9
0°-40°	4712.5	45.2
0°-60°	8516.8	81.7
0°-90°	10428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3792	3792	3792	3792	3792	
5°	3771	3782	3798	3808	3791	360
15°	3700	3700	2927	3443	3677	1039
25°	3453	2983	2451	3506	3485	1587
35°	3096	3116	3170	3088	2904	1934
45°	2612	2617	2474	2491	2749	2013
55°	2042	2106	2179	2102	2241	1814
65°	1378	1346	1362	885	788	1350
75°	675	754	430	522	406	714
85°	149	131	141	149	146	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3792.4	3792.4	3792.4	3792.4	3792.4
2.5°	3812.2	3815.2	3798.5	3792.4	3800.0
5°	3771.1	3781.7	3798.5	3807.6	3790.9
7.5°	3769.6	3774.1	3760.5	3810.6	3774.1
10°	3748.3	3774.1	3746.8	3614.5	3392.5
12.5°	3708.8	3713.3	3651.0	2630.6	2846.6
15°	3699.6	3699.6	2927.2	3442.6	3676.8
17.5°	3617.5	3637.3	2966.7	3616.0	2805.5
20°	3591.7	3579.5	3535.4	2560.7	3079.2
22.5°	3494.3	3410.7	3413.8	3558.2	3544.5
25°	3453.3	2983.4	2451.2	3506.5	3485.2
27.5°	3356.0	2501.4	3114.2	3430.5	3425.9
30°	3299.7	2601.8	3343.8	3368.1	3354.5
32.5°	3181.1	2986.5	3260.2	3311.9	3179.6
35°	3096.0	3115.7	3170.5	3088.3	2904.4
37.5°	2994.1	2858.7	3102.0	2816.2	3086.8
40°	2849.6	2227.7	2984.9	3021.4	2487.7
42.5°	2747.7	2180.5	2787.3	2344.8	2562.2
45°	2612.4	2617.0	2474.0	2490.8	2749.3
47.5°	2471.0	2528.8	2632.2	2645.9	2238.3
50°	2343.3	2399.5	2077.1	2242.9	2419.3
52.5°	2183.6	2262.7	2060.4	2315.9	2183.6
55°	2042.2	2106.0	2179.0	2101.5	2241.4
57.5°	1861.2	1963.1	1865.8	2063.5	1821.7
60°	1710.7	1709.2	1829.3	1838.4	1414.2
62.5°	1529.7	1517.6	1627.0	1233.2	979.3
65°	1377.7	1345.7	1362.5	885.0	787.7
67.5°	1187.6	1053.8	1122.2	739.0	775.5
70°	1012.7	1006.6	688.8	512.4	722.3
72.5°	839.4	913.9	542.9	640.2	625.0
75°	675.1	754.2	430.3	521.6	406.0
77.5°	506.4	547.4	424.2	319.3	197.7
80°	366.5	258.5	270.7	181.0	181.0
82.5°	237.2	212.9	158.1	168.8	159.7
85°	149.0	130.8	141.4	149.0	146.0
87.5°	51.7	89.7	112.5	109.5	100.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)