

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-UNV-L840-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 (P34173)  
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-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

**Summary**

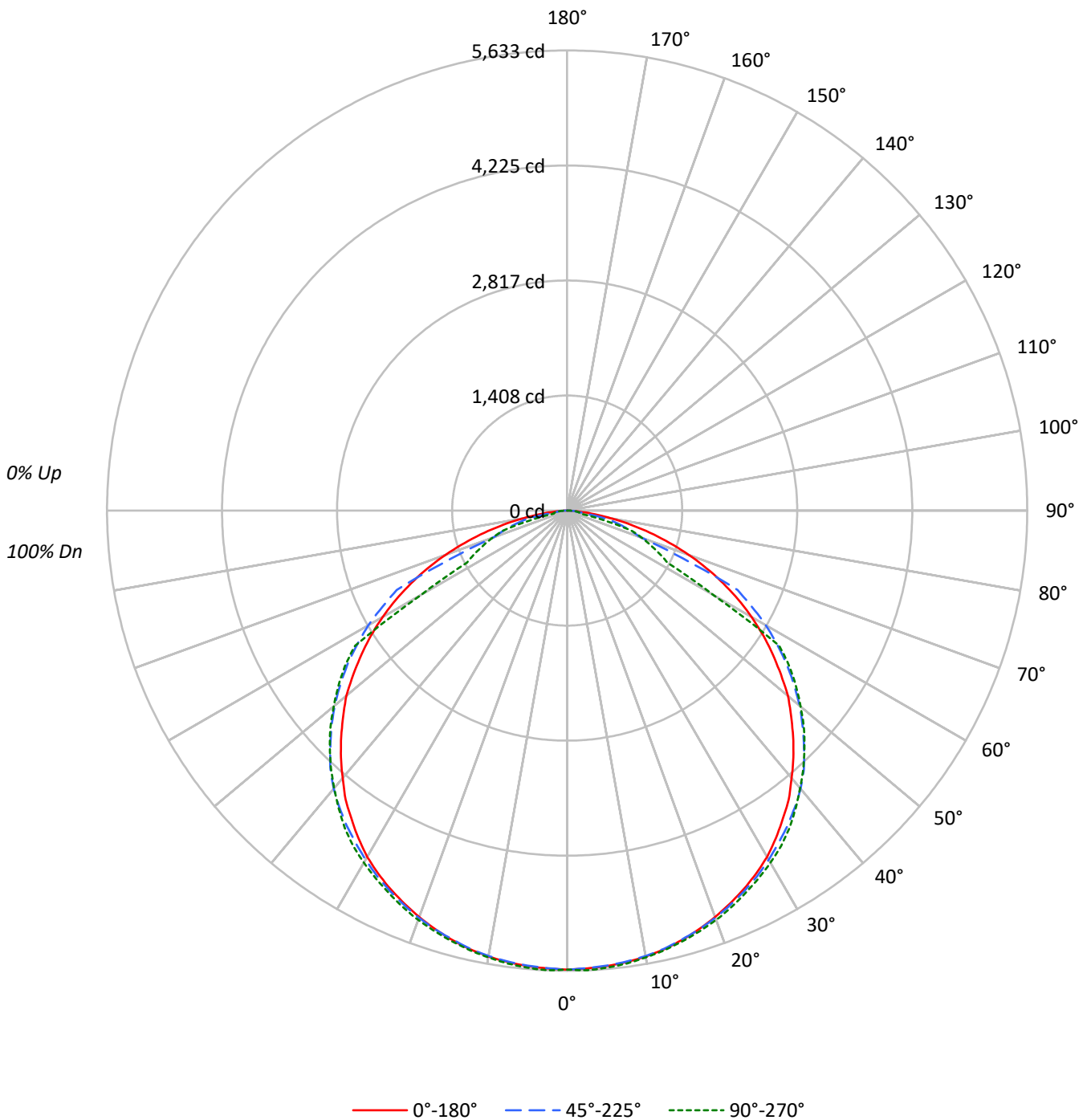
Lumens per Lamp: N/A  
Luminaire Lumens: 16216.0 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 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



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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°	16496	16496	16496
5°	16457	16344	16396
10°	16451	16232	16245
15°	16424	16104	16117
20°	16392	16023	16024
25°	16372	15931	15920
30°	16354	15859	15871
35°	16221	15816	15796
40°	16043	15784	15580
45°	15844	15547	15380
50°	15651	15243	15077
55°	15184	14799	14706
60°	14685	14175	10211
65°	13898	13293	7005
70°	12707	6476	6414
75°	10865	5625	4005
80°	8052	3321	1637
85°	3987	1663	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.0	3.3
10°-20°	1539.1	9.5
20°-30°	2373.0	14.6
30°-40°	2938.4	18.1
40°-50°	3128.0	19.3
50°-60°	2886.4	17.8
60°-70°	1848.1	11.4
70°-80°	832.4	5.1
80°-90°	137.5	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°	4445.2	27.4
0°-40°	7383.6	45.5
0°-60°	13398.0	82.6
0°-90°	16216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5619	5619	5619	5619	5619	
5°	5597	5606	5592	5608	5617	533
15°	5440	5449	5434	5460	5458	1536
25°	5114	5127	5136	5170	5165	2358
35°	4606	4652	4706	4756	4744	2883
45°	3912	3992	4100	4127	4109	3018
55°	3073	3184	3283	3337	3321	2748
65°	2108	2209	2303	1271	1244	2082
75°	1047	1139	671	689	497	1113
85°	152	114	103	110	101	222
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5619.3	5619.3	5619.3	5619.3	5619.3
2.5°	5610.3	5621.5	5605.9	5621.5	5632.7
5°	5596.9	5605.9	5592.4	5608.1	5617.1
7.5°	5574.5	5583.5	5567.8	5583.5	5592.4
10°	5543.2	5547.7	5536.5	5552.2	5554.4
12.5°	5498.4	5502.9	5494.0	5509.6	5511.9
15°	5440.3	5449.2	5433.6	5460.4	5458.2
17.5°	5373.1	5382.1	5375.4	5395.5	5397.7
20°	5294.8	5303.8	5306.0	5330.6	5332.8
22.5°	5207.5	5221.0	5223.2	5256.8	5254.5
25°	5113.5	5127.0	5135.9	5169.5	5165.0
27.5°	5010.6	5028.5	5041.9	5075.5	5075.5
30°	4894.2	4918.8	4934.5	4979.3	4977.0
32.5°	4755.5	4802.5	4820.4	4876.3	4871.8
35°	4605.5	4652.5	4706.2	4755.5	4744.3
37.5°	4457.8	4504.8	4578.7	4607.8	4594.3
40°	4274.3	4352.7	4446.6	4457.8	4437.7
42.5°	4099.8	4162.4	4290.0	4296.7	4278.8
45°	3911.8	3992.4	4099.8	4126.6	4108.7
47.5°	3717.1	3786.5	3911.8	3945.4	3931.9
50°	3529.1	3591.8	3714.9	3748.4	3730.5
52.5°	3298.6	3392.6	3497.8	3551.5	3531.4
55°	3072.6	3184.5	3283.0	3336.7	3321.0
57.5°	2846.6	2969.7	3043.5	3117.4	3079.3
60°	2609.4	2730.2	2810.8	2777.2	2067.8
62.5°	2363.2	2479.6	2546.7	1707.5	1385.2
65°	2108.1	2208.8	2302.8	1271.1	1244.3
67.5°	1848.5	1949.2	1532.9	1130.1	1105.5
70°	1582.2	1676.2	951.1	984.7	971.2
72.5°	1313.6	1403.1	816.8	854.9	837.0
75°	1047.3	1139.1	671.4	689.3	496.8
77.5°	798.9	785.5	541.6	380.4	170.1
80°	543.8	362.5	302.1	158.9	156.7
82.5°	337.9	243.9	127.6	141.0	138.7
85°	152.2	114.1	102.9	109.7	100.7
87.5°	53.7	55.9	62.7	58.2	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)