

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-TWB-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 (P34175)  
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-TWB-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

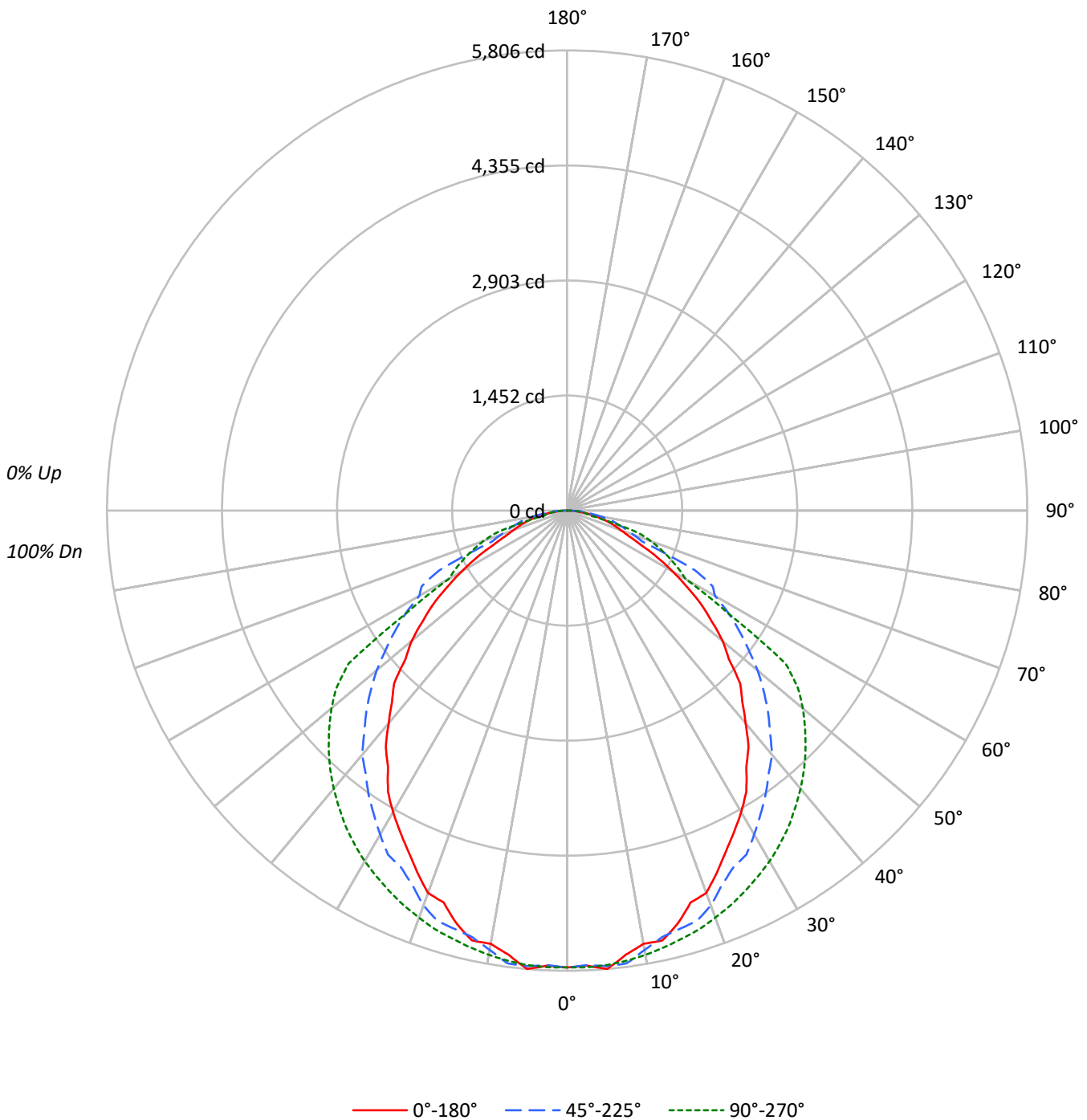
Lumens per Lamp: N/A  
Luminaire Lumens: 14536.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 126.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16921	16921	16921
5°	17071	16859	16800
10°	16475	16501	16646
15°	16282	16200	16515
20°	15895	16015	16423
25°	15181	15396	16340
30°	14678	15168	16289
35°	13879	14681	16210
40°	13152	14277	16084
45°	12504	13587	15926
50°	11366	12875	15687
55°	10203	11967	14895
60°	8643	10855	8516
65°	6785	10298	8053
70°	5763	6051	7404
75°	5440	5478	4670
80°	4873	4800	2750
85°	3678	3546	2336



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.0	3.8
10°-20°	1550.3	10.7
20°-30°	2314.0	15.9
30°-40°	2754.4	18.9
40°-50°	2785.0	19.2
50°-60°	2346.5	16.1
60°-70°	1355.9	9.3
70°-80°	669.3	4.6
80°-90°	214.6	1.5
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°	4410.4	30.3
0°-40°	7164.8	49.3
0°-60°	12296.2	84.6
0°-90°	14536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14536.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5764	5764	5764	5764	5764	
5°	5806	5819	5768	5740	5755	543
15°	5393	5477	5466	5613	5593	1514
25°	4742	4829	4963	5205	5301	2189
35°	3941	4101	4369	4739	4869	2479
45°	3087	3182	3583	4013	4254	2343
55°	2065	2227	2655	3166	3364	1833
65°	1029	1255	1784	1341	1431	1059
75°	524	645	654	720	579	551
85°	140	173	219	261	156	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5764.1	5764.1	5764.1	5764.1	5764.1
2.5°	5746.5	5753.1	5739.9	5772.8	5766.3
5°	5805.8	5818.9	5768.5	5739.9	5755.3
7.5°	5654.4	5682.9	5761.9	5724.6	5729.0
10°	5551.2	5555.6	5628.0	5744.3	5691.7
12.5°	5555.6	5546.8	5513.9	5713.6	5645.6
15°	5393.3	5476.6	5465.7	5612.7	5592.9
17.5°	5184.8	5266.0	5430.6	5511.7	5540.3
20°	5134.3	5105.8	5303.3	5382.3	5465.7
22.5°	4939.1	5053.2	5108.0	5283.5	5391.1
25°	4741.6	4829.4	4963.2	5204.6	5301.1
27.5°	4563.9	4658.2	4895.2	5130.0	5206.7
30°	4392.7	4480.5	4719.6	5035.6	5108.0
32.5°	4206.2	4315.9	4541.9	4921.5	4993.9
35°	3940.7	4100.9	4368.6	4739.4	4868.8
37.5°	3758.6	3863.9	4177.7	4546.3	4726.2
40°	3504.1	3673.0	4021.9	4397.1	4581.4
42.5°	3269.3	3436.1	3787.1	4210.6	4425.6
45°	3087.2	3181.5	3583.1	4013.1	4254.5
47.5°	2762.5	3001.6	3361.5	3802.5	4072.4
50°	2562.8	2727.3	3137.7	3600.6	3881.5
52.5°	2303.9	2488.2	2885.3	3376.8	3668.6
55°	2064.7	2227.1	2654.9	3166.2	3363.7
57.5°	1792.6	2001.1	2415.8	2927.0	2400.4
60°	1535.9	1744.4	2152.5	1976.9	1724.6
62.5°	1290.2	1474.5	2071.3	1487.6	1582.0
65°	1029.1	1255.1	1783.9	1340.6	1430.6
67.5°	844.8	1002.7	1029.1	1200.2	1279.2
70°	717.5	794.3	888.6	1064.2	1121.2
72.5°	623.1	656.1	772.3	945.7	954.5
75°	524.4	645.1	653.9	719.7	579.3
77.5°	419.1	520.0	566.1	419.1	296.2
80°	329.1	353.3	436.6	368.6	263.3
82.5°	228.2	261.1	302.8	318.2	217.2
85°	140.4	173.3	219.4	261.1	155.8
87.5°	59.2	94.3	151.4	201.9	85.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)