

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-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 (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-L840-CD2-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

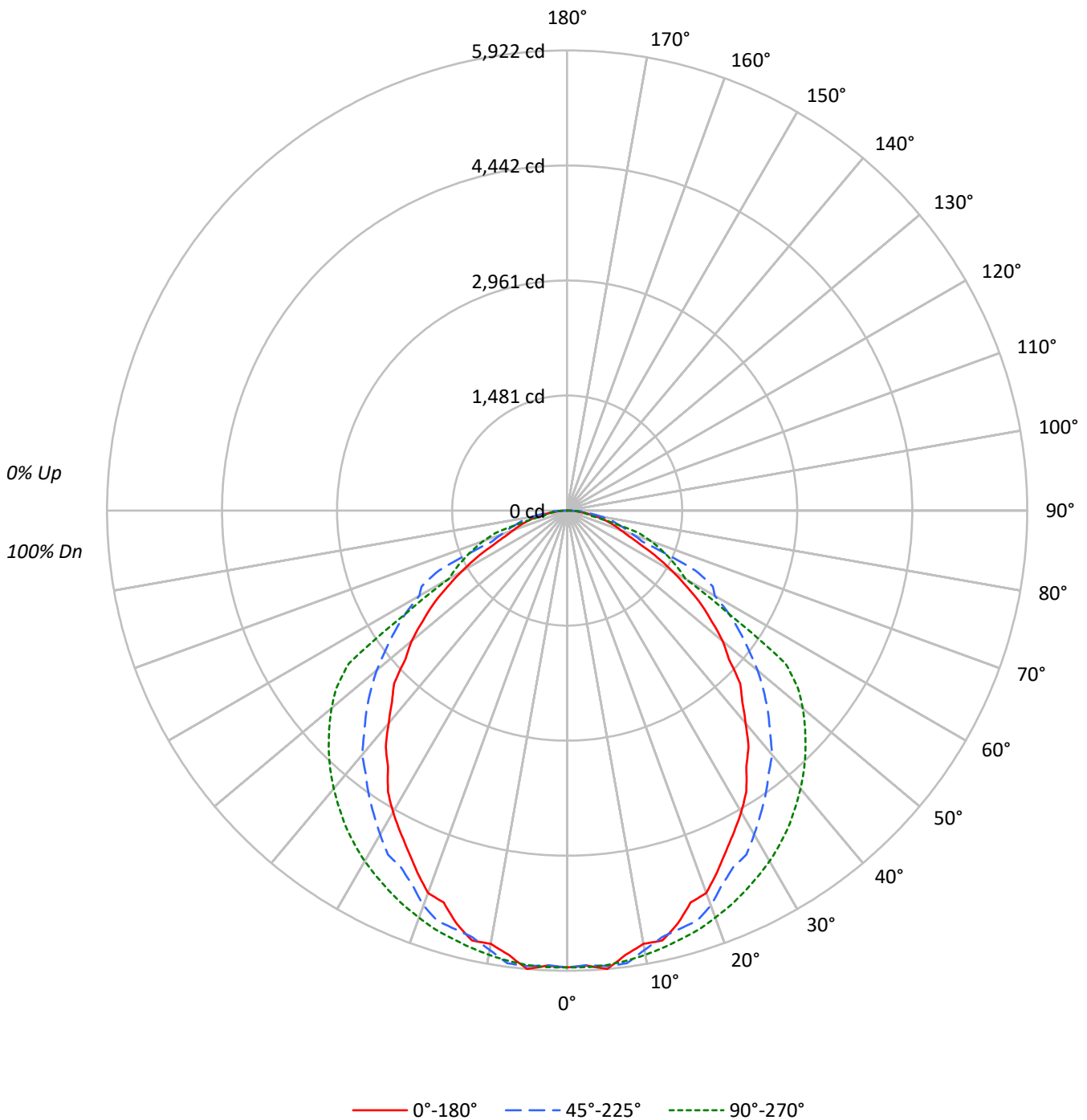
Lumens per Lamp: N/A  
Luminaire Lumens: 14826.0 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	47
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°	17259	17259	17259
5°	17412	17195	17135
10°	16804	16830	16978
15°	16607	16523	16845
20°	16212	16334	16750
25°	15484	15703	16666
30°	14971	15471	16614
35°	14156	14974	16534
40°	13415	14561	16405
45°	12754	13858	16243
50°	11592	13132	16000
55°	10407	12206	15192
60°	8816	11071	8686
65°	6920	10502	8214
70°	5877	6172	7552
75°	5549	5587	4762
80°	4970	4896	2805
85°	3751	3618	2382



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.9	3.8
10°-20°	1581.2	10.7
20°-30°	2360.2	15.9
30°-40°	2809.4	18.9
40°-50°	2840.5	19.2
50°-60°	2393.3	16.1
60°-70°	1382.9	9.3
70°-80°	682.6	4.6
80°-90°	218.9	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°	4498.4	30.3
0°-40°	7307.7	49.3
0°-60°	12541.5	84.6
0°-90°	14826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5879	5879	5879	5879	5879	
5°	5922	5935	5884	5854	5870	553
15°	5501	5586	5575	5725	5704	1544
25°	4836	4926	5062	5308	5407	2233
35°	4019	4183	4456	4834	4966	2528
45°	3149	3245	3655	4093	4339	2389
55°	2106	2272	2708	3229	3431	1869
65°	1050	1280	1819	1367	1459	1081
75°	535	658	667	734	591	562
85°	143	177	224	266	159	164
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5879.1	5879.1	5879.1	5879.1	5879.1
2.5°	5861.2	5867.9	5854.4	5888.0	5881.3
5°	5921.6	5935.0	5883.5	5854.4	5870.1
7.5°	5767.2	5796.3	5876.8	5838.8	5843.3
10°	5662.0	5666.5	5740.3	5858.9	5805.2
12.5°	5666.5	5657.5	5623.9	5827.6	5758.2
15°	5500.9	5585.9	5574.7	5724.6	5704.5
17.5°	5288.2	5371.1	5538.9	5621.7	5650.8
20°	5236.8	5207.7	5409.1	5489.7	5574.7
22.5°	5037.6	5154.0	5209.9	5389.0	5498.6
25°	4836.2	4925.7	5062.2	5308.4	5406.9
27.5°	4654.9	4751.1	4992.8	5232.3	5310.6
30°	4480.4	4569.9	4813.8	5136.1	5209.9
32.5°	4290.1	4402.0	4632.5	5019.7	5093.5
35°	4019.3	4182.7	4455.7	4833.9	4966.0
37.5°	3833.6	3941.0	4261.0	4637.0	4820.5
40°	3574.0	3746.3	4102.1	4484.8	4672.8
42.5°	3334.5	3504.6	3862.7	4294.6	4513.9
45°	3148.8	3245.0	3654.6	4093.2	4339.4
47.5°	2817.6	3061.5	3428.5	3878.3	4153.6
50°	2613.9	2781.8	3200.3	3672.5	3958.9
52.5°	2349.8	2537.8	2942.9	3444.2	3741.8
55°	2105.9	2271.5	2707.9	3229.3	3430.8
57.5°	1828.4	2041.0	2464.0	2985.4	2448.3
60°	1566.6	1779.2	2195.4	2016.4	1759.0
62.5°	1315.9	1503.9	2112.6	1517.3	1613.6
65°	1049.6	1280.1	1819.4	1367.4	1459.1
67.5°	861.6	1022.7	1049.6	1224.2	1304.7
70°	731.8	810.1	906.4	1085.4	1143.6
72.5°	635.6	669.1	787.8	964.6	973.5
75°	534.9	658.0	666.9	734.0	590.8
77.5°	427.4	530.4	577.4	427.4	302.1
80°	335.7	360.3	445.3	376.0	268.6
82.5°	232.7	266.3	308.8	324.5	221.6
85°	143.2	176.8	223.8	266.3	158.9
87.5°	60.4	96.2	154.4	205.9	87.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)