

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: P219282

Luminaire Tested: **14AC-LD5-39-UNV-L840-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P219282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14AC-LD5-39-UNV-L840-CD1-U  
Description: ACCORD 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

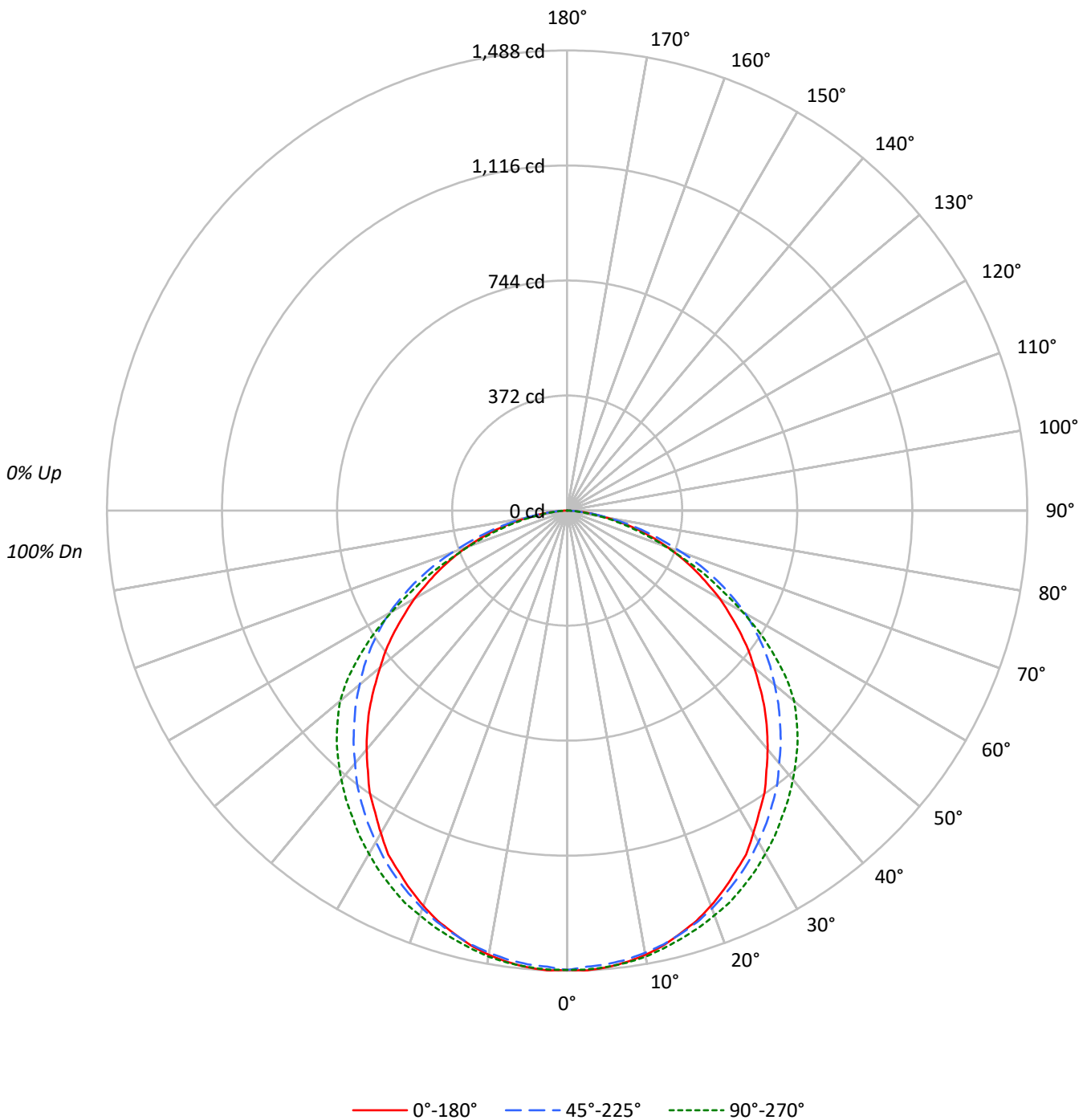
Lumens per Lamp: N/A  
Luminaire Lumens: 4118.9 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 35.67  
Input Voltage (V): NR  
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	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°	3997	3997	3997
5°	3996	3947	3967
10°	3968	3906	3933
15°	3917	3857	3886
20°	3860	3798	3848
25°	3781	3733	3811
30°	3690	3657	3764
35°	3593	3580	3716
40°	3470	3488	3681
45°	3353	3403	3646
50°	3207	3316	3585
55°	3083	3229	3364
60°	2942	3108	3005
65°	2756	2868	2582
70°	2538	2494	2079
75°	2239	2033	1618
80°	1725	1413	1081
85°	1088	605	412



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	3.4
10°-20°	401.5	9.7
20°-30°	605.7	14.7
30°-40°	726.2	17.6
40°-50°	753.6	18.3
50°-60°	680.4	16.5
60°-70°	495.5	12.0
70°-80°	259.9	6.3
80°-90°	55.6	1.3
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°	1147.7	27.9
0°-40°	1873.9	45.5
0°-60°	3307.9	80.3
0°-90°	4118.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1482	1479	1472	1482	1481	141
15°	1415	1415	1417	1433	1432	399
25°	1288	1295	1309	1338	1344	594
35°	1113	1124	1157	1201	1210	694
45°	903	923	973	1034	1054	695
55°	681	704	775	822	820	608
65°	456	484	536	511	492	451
75°	235	269	260	225	214	248
85°	45	54	39	30	29	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1488.3	1484.3	1476.4	1486.3	1485.3
5°	1482.4	1479.4	1472.5	1482.4	1481.4
7.5°	1472.5	1470.5	1464.6	1475.5	1474.5
10°	1458.7	1455.8	1451.8	1463.6	1464.6
12.5°	1440.0	1439.0	1437.0	1449.9	1448.9
15°	1415.4	1415.4	1417.3	1433.1	1432.1
17.5°	1390.8	1390.8	1395.7	1413.4	1414.4
20°	1360.2	1362.2	1369.1	1390.8	1392.7
22.5°	1325.7	1327.7	1339.5	1367.1	1372.0
25°	1288.3	1295.2	1309.0	1337.6	1343.5
27.5°	1253.8	1254.8	1275.5	1307.0	1314.9
30°	1204.6	1218.4	1237.1	1273.5	1281.4
32.5°	1156.3	1170.1	1198.7	1238.1	1248.9
35°	1113.0	1123.8	1157.3	1200.7	1210.5
37.5°	1058.8	1076.6	1116.0	1161.3	1175.1
40°	1008.6	1024.4	1066.7	1117.9	1135.7
42.5°	956.4	974.1	1022.4	1077.5	1095.3
45°	903.2	922.9	973.1	1034.2	1053.9
47.5°	845.1	869.7	926.8	988.9	1006.6
50°	788.9	814.6	875.6	940.6	958.4
52.5°	737.7	760.4	827.4	887.4	895.3
55°	680.6	704.2	775.2	821.5	819.5
57.5°	623.5	650.1	721.0	749.6	741.7
60°	570.3	594.9	665.8	671.7	655.0
62.5°	511.2	539.8	599.8	591.0	570.3
65°	456.0	483.6	535.8	511.2	492.5
67.5°	399.9	429.4	466.9	430.4	408.8
70°	344.7	380.2	394.0	354.6	336.9
72.5°	288.6	326.0	325.0	287.6	272.8
75°	235.4	268.9	260.0	224.6	213.7
77.5°	179.3	212.8	196.0	169.4	159.6
80°	127.1	158.6	136.9	116.2	109.3
82.5°	86.7	105.4	85.7	68.0	65.0
85°	45.3	54.2	39.4	30.5	28.6
87.5°	16.7	15.8	13.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)