

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: P225676

Luminaire Tested: **24AC-LD5-31-RDP-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: P225676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24AC-LD5-31-RDP-UNV-L840-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS  
Light Source: (168)4000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2747.1 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

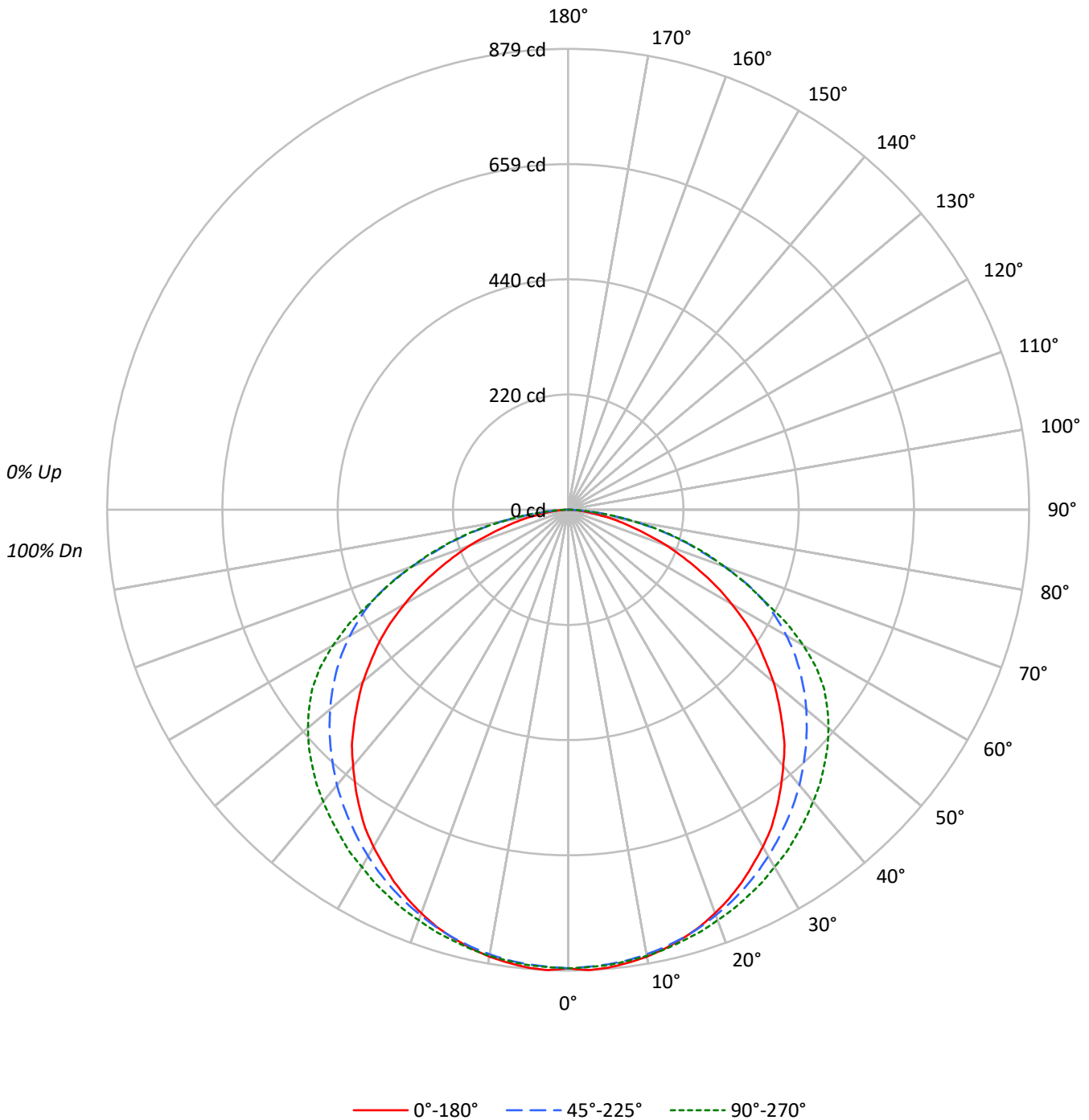
Input Watts (W): 25.41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	31
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

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

	0°	45°	90°
0°	1177	1177	1177
5°	1184	1176	1178
10°	1182	1177	1180
15°	1179	1178	1185
20°	1173	1179	1193
25°	1164	1182	1206
30°	1153	1186	1222
35°	1139	1192	1246
40°	1120	1205	1276
45°	1098	1219	1313
50°	1070	1241	1356
55°	1031	1266	1397
60°	969	1292	1393
65°	884	1313	1310
70°	786	1247	1247
75°	640	1150	1165
80°	494	993	976
85°	343	651	608



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	3.0
10°-20°	239.0	8.7
20°-30°	367.4	13.4
30°-40°	454.5	16.5
40°-50°	492.1	17.9
50°-60°	472.0	17.2
60°-70°	374.6	13.6
70°-80°	215.1	7.8
80°-90°	49.4	1.8
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°	689.3	25.1
0°-40°	1143.8	41.6
0°-60°	2107.9	76.7
0°-90°	2747.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	877	873	870	869	872	83
15°	846	844	845	847	850	239
25°	784	786	796	806	812	361
35°	694	703	726	748	759	434
45°	577	599	641	676	690	445
55°	440	478	540	581	596	391
65°	278	344	412	418	412	276
75°	123	198	221	223	224	134
85°	22	39	42	40	39	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	874.8	874.8	874.8	874.8	874.8
2.5°	879.1	874.8	872.6	871.2	873.3
5°	876.9	872.6	870.5	869.1	871.9
7.5°	871.9	868.3	866.9	866.2	868.3
10°	865.5	861.9	861.2	860.5	864.0
12.5°	856.9	854.0	854.0	854.0	858.3
15°	846.1	844.0	845.4	846.9	850.4
17.5°	834.0	831.8	835.4	838.3	843.3
20°	818.9	818.9	823.2	827.5	833.3
22.5°	802.5	803.9	810.4	817.5	824.0
25°	783.9	786.0	796.0	806.1	812.5
27.5°	763.1	767.4	780.3	793.2	801.0
30°	742.3	746.6	763.1	778.9	786.7
32.5°	720.2	725.2	745.2	763.8	774.6
35°	693.7	703.0	725.9	748.1	758.8
37.5°	666.5	679.4	706.6	731.6	743.1
40°	637.8	653.6	685.8	714.4	726.6
42.5°	610.6	627.1	663.6	695.8	710.1
45°	577.0	599.2	640.7	676.5	690.1
47.5°	544.1	570.5	617.1	655.0	670.8
50°	511.1	540.5	592.7	634.3	647.9
52.5°	473.9	509.7	567.0	608.5	622.8
55°	439.5	478.2	539.8	580.6	595.6
57.5°	401.6	445.3	511.8	551.9	561.2
60°	360.1	411.6	480.3	514.7	517.6
62.5°	320.7	378.7	448.1	469.6	470.3
65°	277.8	343.6	412.3	418.1	411.6
67.5°	237.7	306.4	368.0	363.7	365.8
70°	199.7	271.3	317.1	319.3	317.1
72.5°	158.2	234.8	267.0	272.0	272.7
75°	123.1	198.3	221.2	223.3	224.1
77.5°	93.8	158.9	172.5	176.1	178.2
80°	63.7	111.0	128.1	129.6	126.0
82.5°	41.5	71.6	81.6	81.6	80.9
85°	22.2	38.7	42.2	40.1	39.4
87.5°	7.9	11.5	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)