

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: P225657

Luminaire Tested: **24AC-LD5-73-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: P225657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35753)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24AC-LD5-73-UNV-L840-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER  
Light Source: (168)4000K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

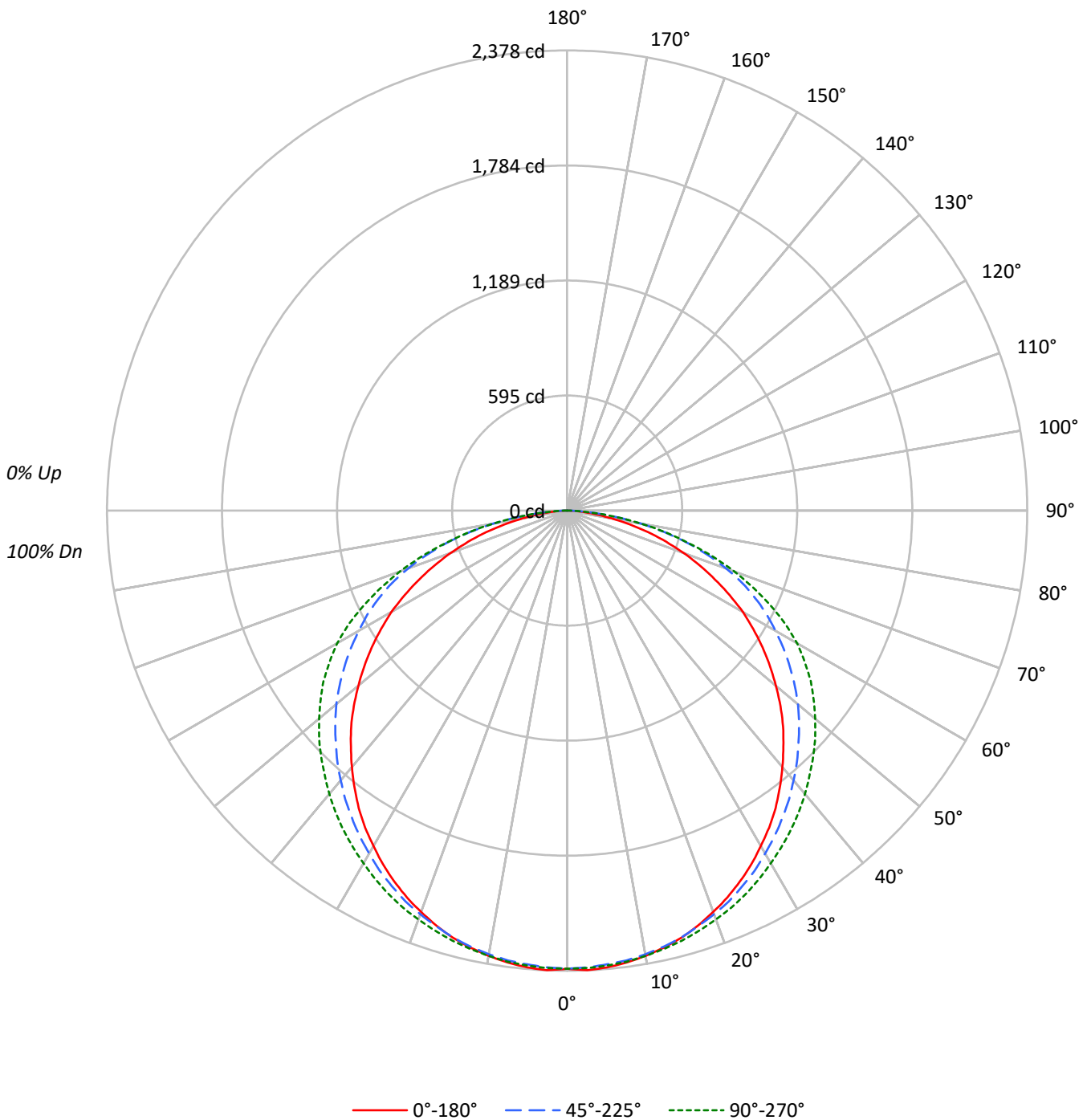
Lumens per Lamp: N/A  
Luminaire Lumens: 7438.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 71.02  
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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

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

	0°	45°	90°
0°	3186	3186	3186
5°	3200	3180	3189
10°	3192	3180	3192
15°	3183	3180	3203
20°	3160	3179	3219
25°	3139	3181	3245
30°	3110	3180	3270
35°	3084	3185	3310
40°	3040	3196	3359
45°	3003	3217	3422
50°	2947	3259	3501
55°	2891	3295	3605
60°	2823	3344	3695
65°	2686	3419	3692
70°	2519	3437	3612
75°	2254	3337	3380
80°	1808	2987	2999
85°	1277	2171	2044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.2	3.0
10°-20°	645.0	8.7
20°-30°	988.4	13.3
30°-40°	1214.8	16.3
40°-50°	1303.1	17.5
50°-60°	1246.2	16.8
60°-70°	1025.1	13.8
70°-80°	630.4	8.5
80°-90°	160.8	2.2
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°	1857.6	25.0
0°-40°	3072.4	41.3
0°-60°	5621.7	75.6
0°-90°	7438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2368	2368	2368	2368	2368	
5°	2369	2359	2354	2351	2361	225
15°	2285	2277	2283	2286	2300	644
25°	2114	2114	2142	2166	2186	974
35°	1878	1889	1939	1989	2015	1173
45°	1578	1608	1691	1765	1798	1216
55°	1233	1292	1405	1499	1537	1101
65°	844	938	1074	1138	1160	836
75°	434	562	642	654	650	458
85°	83	136	141	136	132	102
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2367.6	2367.6	2367.6	2367.6	2367.6
2.5°	2377.5	2365.9	2362.6	2357.6	2365.9
5°	2369.2	2359.3	2354.3	2351.0	2360.9
7.5°	2356.0	2346.0	2344.4	2341.1	2351.0
10°	2336.1	2327.8	2327.8	2326.2	2336.1
12.5°	2313.0	2303.0	2308.0	2309.6	2319.6
15°	2284.8	2276.6	2283.2	2286.5	2299.7
17.5°	2248.4	2241.8	2251.7	2261.7	2274.9
20°	2207.1	2205.4	2220.3	2233.5	2248.4
22.5°	2164.1	2164.1	2185.6	2200.5	2220.3
25°	2114.4	2114.4	2142.5	2165.7	2185.6
27.5°	2061.5	2064.8	2097.9	2126.0	2147.5
30°	2001.9	2011.8	2046.6	2081.3	2104.5
32.5°	1942.4	1950.6	1995.3	2040.0	2061.5
35°	1877.8	1889.4	1939.0	1988.7	2015.2
37.5°	1805.0	1821.6	1882.8	1937.4	1965.5
40°	1730.6	1752.1	1819.9	1882.8	1912.6
42.5°	1654.5	1684.3	1758.7	1823.2	1854.7
45°	1578.4	1608.2	1690.9	1765.3	1798.4
47.5°	1495.6	1532.0	1626.3	1702.5	1738.9
50°	1408.0	1451.0	1556.9	1636.3	1672.7
52.5°	1321.9	1371.6	1482.4	1571.8	1606.5
55°	1232.6	1292.1	1404.6	1499.0	1537.0
57.5°	1139.9	1207.8	1326.9	1422.8	1455.9
60°	1048.9	1116.8	1242.5	1340.1	1373.2
62.5°	946.4	1029.1	1163.1	1254.1	1272.3
65°	843.8	938.1	1073.8	1138.3	1159.8
67.5°	742.9	845.4	981.1	1027.4	1040.7
70°	640.3	746.2	873.6	911.6	918.2
72.5°	536.1	655.2	762.7	784.2	787.5
75°	433.5	562.5	641.9	653.5	650.2
77.5°	332.5	459.9	516.2	521.2	522.8
80°	233.3	352.4	385.5	387.1	387.1
82.5°	150.6	244.9	261.4	258.1	261.4
85°	82.7	135.7	140.6	135.7	132.4
87.5°	26.5	39.7	43.0	41.4	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)