

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: P225646

Luminaire Tested: **24AC-LD5-63-UNV-L835-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: P225646  
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-LD5-63-UNV-L835-CD1-U  
Description: METALUX Accord 2X4 LED TROFFER  
Light Source: (168)3500K CCT, 85 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6310.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 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

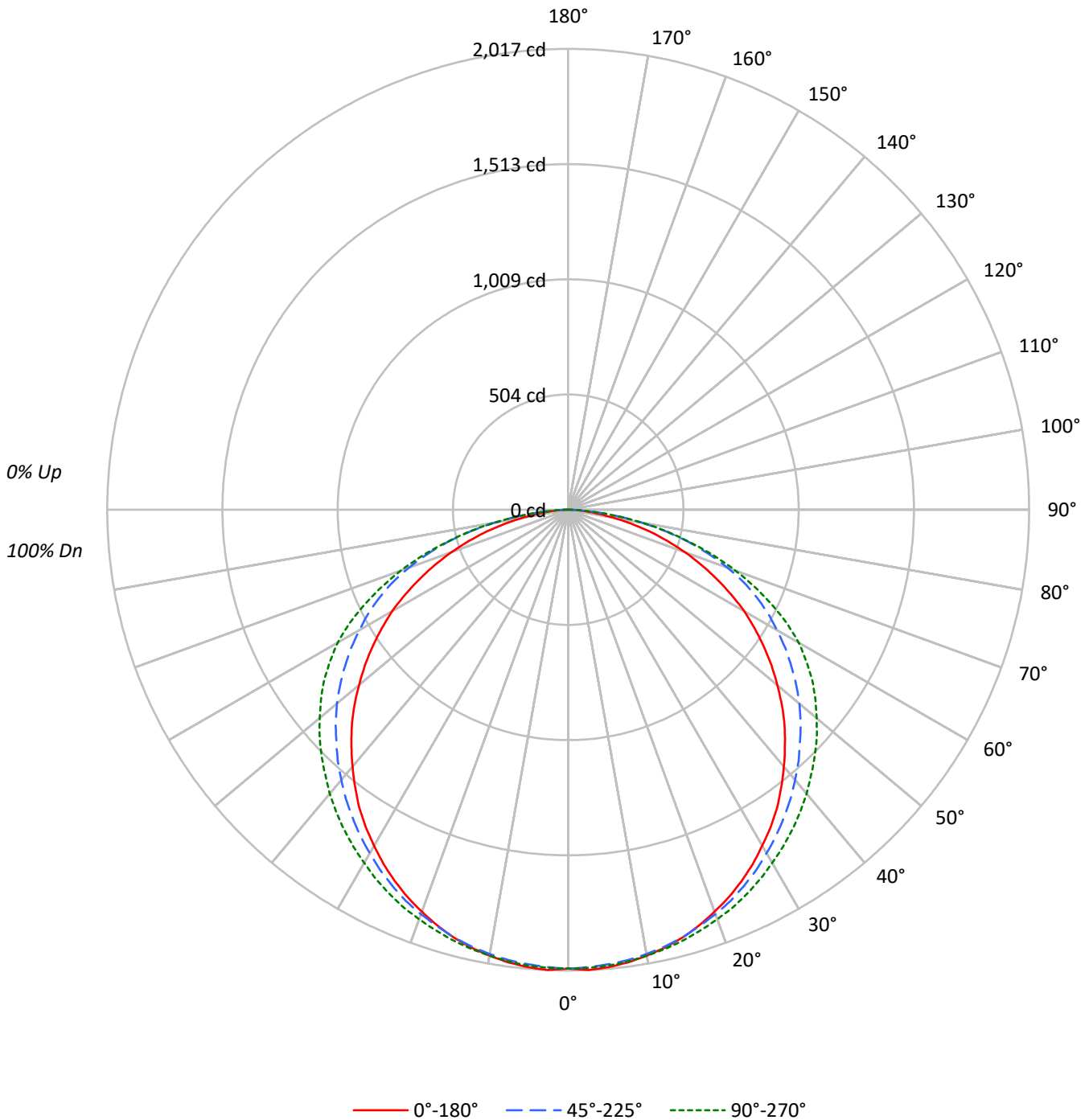
Input Watts (W): 57.82  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2702	2702	2702
5°	2715	2698	2705
10°	2708	2698	2708
15°	2700	2698	2718
20°	2681	2697	2731
25°	2663	2698	2753
30°	2639	2697	2774
35°	2617	2702	2808
40°	2579	2712	2850
45°	2548	2729	2903
50°	2500	2765	2970
55°	2453	2795	3059
60°	2395	2837	3135
65°	2279	2900	3132
70°	2137	2915	3065
75°	1912	2831	2868
80°	1533	2534	2545
85°	1084	1842	1734



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.2	3.0
10°-20°	547.2	8.7
20°-30°	838.5	13.3
30°-40°	1030.6	16.3
40°-50°	1105.5	17.5
50°-60°	1057.2	16.8
60°-70°	869.6	13.8
70°-80°	534.8	8.5
80°-90°	136.4	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°	1575.9	25.0
0°-40°	2606.5	41.3
0°-60°	4769.2	75.6
0°-90°	6310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2010	2002	1997	1994	2003	191
15°	1938	1931	1937	1940	1951	547
25°	1794	1794	1818	1837	1854	827
35°	1593	1603	1645	1687	1710	995
45°	1339	1364	1434	1498	1526	1032
55°	1046	1096	1192	1272	1304	934
65°	716	796	911	966	984	709
75°	368	477	545	554	552	389
85°	70	115	119	115	112	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2008.5	2008.5	2008.5	2008.5	2008.5
2.5°	2016.9	2007.1	2004.3	2000.1	2007.1
5°	2009.9	2001.5	1997.3	1994.5	2002.9
7.5°	1998.7	1990.3	1988.9	1986.0	1994.5
10°	1981.8	1974.8	1974.8	1973.4	1981.8
12.5°	1962.2	1953.8	1958.0	1959.4	1967.8
15°	1938.3	1931.3	1936.9	1939.7	1951.0
17.5°	1907.4	1901.8	1910.3	1918.7	1929.9
20°	1872.4	1871.0	1883.6	1894.8	1907.4
22.5°	1835.9	1835.9	1854.1	1866.7	1883.6
25°	1793.8	1793.8	1817.6	1837.3	1854.1
27.5°	1748.8	1751.7	1779.7	1803.6	1821.8
30°	1698.3	1706.7	1736.2	1765.7	1785.3
32.5°	1647.8	1654.8	1692.7	1730.6	1748.8
35°	1593.0	1602.9	1645.0	1687.1	1709.5
37.5°	1531.3	1545.3	1597.3	1643.6	1667.4
40°	1468.1	1486.4	1543.9	1597.3	1622.5
42.5°	1403.6	1428.8	1492.0	1546.7	1573.4
45°	1339.0	1364.3	1434.4	1497.6	1525.7
47.5°	1268.8	1299.7	1379.7	1444.3	1475.2
50°	1194.4	1230.9	1320.8	1388.1	1419.0
52.5°	1121.5	1163.6	1257.6	1333.4	1362.9
55°	1045.7	1096.2	1191.6	1271.6	1303.9
57.5°	967.1	1024.6	1125.7	1207.1	1235.1
60°	889.9	947.4	1054.1	1136.9	1165.0
62.5°	802.8	873.0	986.7	1063.9	1079.3
65°	715.8	795.8	910.9	965.7	983.9
67.5°	630.2	717.2	832.3	871.6	882.8
70°	543.2	633.0	741.1	773.4	779.0
72.5°	454.8	555.8	647.0	665.3	668.1
75°	367.7	477.2	544.6	554.4	551.6
77.5°	282.1	390.2	437.9	442.1	443.5
80°	197.9	299.0	327.0	328.4	328.4
82.5°	127.7	207.7	221.8	219.0	221.8
85°	70.2	115.1	119.3	115.1	112.3
87.5°	22.5	33.7	36.5	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)