

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: P225655

Luminaire Tested: **24AC-LD5-63-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: P225655  
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-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**

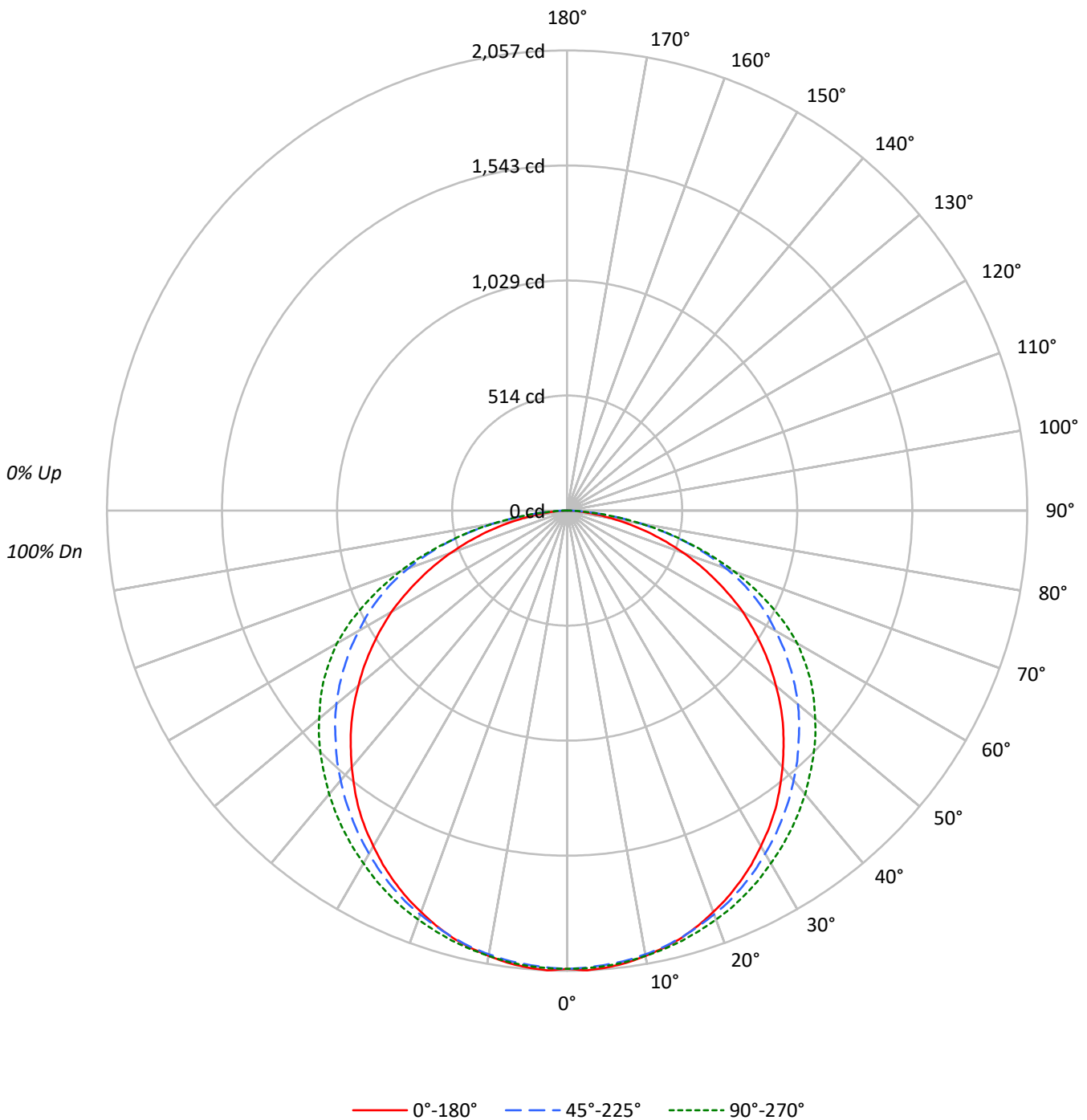
Lumens per Lamp: N/A  
Luminaire Lumens: 6436.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2756	2756	2756
5°	2769	2752	2759
10°	2762	2752	2762
15°	2754	2752	2772
20°	2734	2751	2786
25°	2716	2752	2807
30°	2691	2751	2829
35°	2669	2756	2864
40°	2630	2766	2907
45°	2599	2784	2961
50°	2550	2820	3030
55°	2502	2851	3120
60°	2442	2893	3197
65°	2324	2958	3195
70°	2179	2974	3126
75°	1950	2888	2925
80°	1564	2585	2596
85°	1105	1879	1768



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.0	3.0
10°-20°	558.1	8.7
20°-30°	855.3	13.3
30°-40°	1051.2	16.3
40°-50°	1127.6	17.5
50°-60°	1078.3	16.8
60°-70°	887.0	13.8
70°-80°	545.5	8.5
80°-90°	139.1	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°	1607.3	25.0
0°-40°	2658.5	41.3
0°-60°	4864.4	75.6
0°-90°	6436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2050	2042	2037	2034	2043	195
15°	1977	1970	1976	1978	1990	557
25°	1830	1830	1854	1874	1891	843
35°	1625	1635	1678	1721	1744	1015
45°	1366	1392	1463	1528	1556	1052
55°	1066	1118	1215	1297	1330	953
65°	730	812	929	985	1004	723
75°	375	487	556	566	563	397
85°	72	117	122	117	114	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2048.6	2048.6	2048.6	2048.6	2048.6
2.5°	2057.2	2047.2	2044.3	2040.0	2047.2
5°	2050.0	2041.5	2037.2	2034.3	2042.9
7.5°	2038.6	2030.0	2028.6	2025.7	2034.3
10°	2021.4	2014.3	2014.3	2012.8	2021.4
12.5°	2001.4	1992.8	1997.1	1998.5	2007.1
15°	1977.0	1969.9	1975.6	1978.5	1989.9
17.5°	1945.5	1939.8	1948.4	1957.0	1968.4
20°	1909.7	1908.3	1921.2	1932.7	1945.5
22.5°	1872.5	1872.5	1891.1	1904.0	1921.2
25°	1829.6	1829.6	1853.9	1874.0	1891.1
27.5°	1783.8	1786.6	1815.3	1839.6	1858.2
30°	1732.2	1740.8	1770.9	1800.9	1821.0
32.5°	1680.7	1687.9	1726.5	1765.2	1783.8
35°	1624.9	1634.9	1677.8	1720.8	1743.7
37.5°	1561.9	1576.2	1629.2	1676.4	1700.7
40°	1497.4	1516.1	1574.8	1629.2	1654.9
42.5°	1431.6	1457.4	1521.8	1577.6	1604.8
45°	1365.7	1391.5	1463.1	1527.5	1556.1
47.5°	1294.2	1325.7	1407.3	1473.1	1504.6
50°	1218.3	1255.5	1347.1	1415.8	1447.3
52.5°	1143.8	1186.8	1282.7	1360.0	1390.1
55°	1066.5	1118.1	1215.4	1297.0	1330.0
57.5°	986.4	1045.1	1148.1	1231.2	1259.8
60°	907.6	966.3	1075.1	1159.6	1188.2
62.5°	818.9	890.5	1006.4	1085.1	1100.9
65°	730.1	811.7	929.1	984.9	1003.5
67.5°	642.8	731.5	848.9	889.0	900.5
70°	554.0	645.6	755.9	788.8	794.5
72.5°	463.8	566.9	660.0	678.6	681.4
75°	375.1	486.7	555.5	565.5	562.6
77.5°	287.8	398.0	446.7	451.0	452.4
80°	201.9	304.9	333.6	335.0	335.0
82.5°	130.3	211.9	226.2	223.3	226.2
85°	71.6	117.4	121.7	117.4	114.5
87.5°	22.9	34.4	37.2	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)