

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: P225682

Luminaire Tested: **24AC-LD5-63-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: P225682  
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-LD5-63-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: 5494.2 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

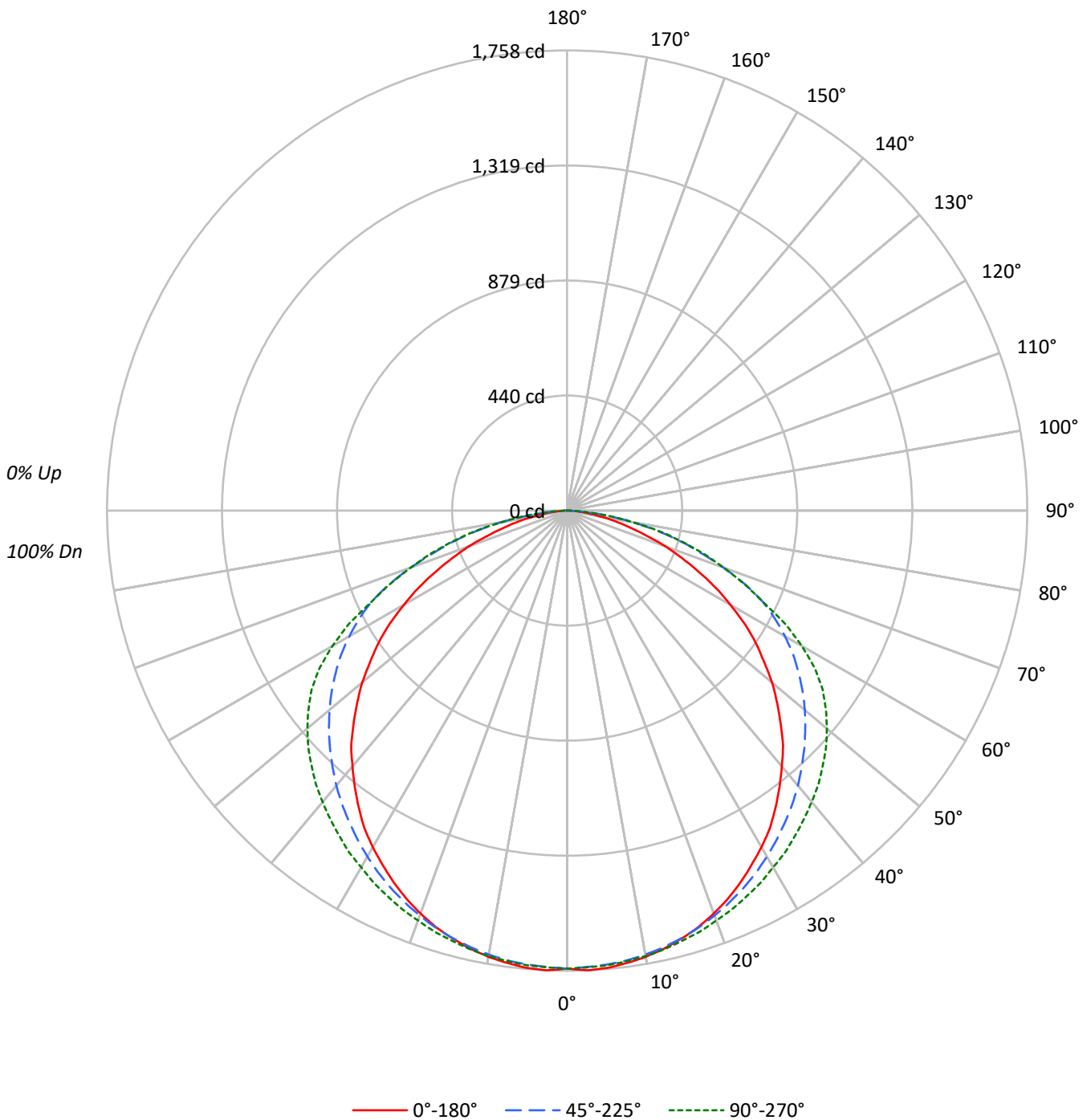
Input Watts (W): 57.82  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2354	2354	2354
5°	2369	2351	2355
10°	2365	2353	2361
15°	2357	2355	2369
20°	2345	2358	2386
25°	2327	2364	2412
30°	2307	2371	2445
35°	2279	2385	2493
40°	2241	2409	2552
45°	2196	2438	2626
50°	2140	2482	2712
55°	2062	2532	2794
60°	1938	2585	2785
65°	1769	2626	2621
70°	1571	2495	2495
75°	1280	2300	2329
80°	987	1986	1953
85°	685	1304	1215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	3.0
10°-20°	478.0	8.7
20°-30°	734.8	13.4
30°-40°	909.1	16.5
40°-50°	984.2	17.9
50°-60°	944.0	17.2
60°-70°	749.3	13.6
70°-80°	430.3	7.8
80°-90°	98.9	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°	1378.6	25.1
0°-40°	2287.7	41.6
0°-60°	4215.8	76.7
0°-90°	5494.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5494.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1754	1745	1741	1738	1744	167
15°	1692	1688	1691	1694	1701	478
25°	1568	1572	1592	1612	1625	722
35°	1387	1406	1452	1496	1518	868
45°	1154	1198	1281	1353	1380	890
55°	879	956	1080	1161	1191	783
65°	556	687	825	836	823	552
75°	246	397	442	447	448	267
85°	44	77	84	80	79	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1749.6	1749.6	1749.6	1749.6	1749.6
2.5°	1758.2	1749.6	1745.3	1742.4	1746.7
5°	1753.9	1745.3	1741.0	1738.1	1743.8
7.5°	1743.8	1736.7	1733.8	1732.4	1736.7
10°	1730.9	1723.8	1722.4	1720.9	1728.1
12.5°	1713.8	1708.0	1708.0	1708.0	1716.6
15°	1692.3	1688.0	1690.9	1693.7	1700.9
17.5°	1668.0	1663.7	1670.8	1676.5	1686.6
20°	1637.9	1637.9	1646.5	1655.1	1666.5
22.5°	1605.0	1607.8	1620.7	1635.0	1647.9
25°	1567.7	1572.0	1592.1	1612.1	1625.0
27.5°	1526.2	1534.8	1560.6	1586.3	1602.1
30°	1484.7	1493.3	1526.2	1557.7	1573.5
32.5°	1440.3	1450.3	1490.4	1527.6	1549.1
35°	1387.3	1405.9	1451.8	1496.1	1517.6
37.5°	1332.9	1358.7	1413.1	1463.2	1486.1
40°	1275.7	1307.2	1371.6	1428.9	1453.2
42.5°	1221.3	1254.2	1327.2	1391.6	1420.3
45°	1154.0	1198.3	1281.4	1353.0	1380.2
47.5°	1088.1	1141.1	1234.1	1310.0	1341.5
50°	1022.2	1080.9	1185.5	1268.5	1295.7
52.5°	947.8	1019.4	1133.9	1217.0	1245.6
55°	879.1	956.4	1079.5	1161.1	1191.2
57.5°	803.2	890.5	1023.7	1103.9	1122.5
60°	720.2	823.2	960.7	1029.4	1035.1
62.5°	641.4	757.4	896.3	939.2	940.6
65°	555.5	687.2	824.7	836.1	823.2
67.5°	475.3	612.8	735.9	727.3	731.6
70°	399.4	542.6	634.3	638.5	634.3
72.5°	316.4	469.6	534.0	544.1	545.5
75°	246.3	396.6	442.4	446.7	448.1
77.5°	187.6	317.8	345.0	352.2	356.5
80°	127.4	221.9	256.3	259.1	252.0
82.5°	83.0	143.2	163.2	163.2	161.8
85°	44.4	77.3	84.5	80.2	78.7
87.5°	15.7	22.9	25.8	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)