

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: P225673

Luminaire Tested: **24AC-LD5-63-RDP-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: P225673
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-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
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: 5386.5 lumens
Efficiency: N/A
Efficacy: 93.2 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

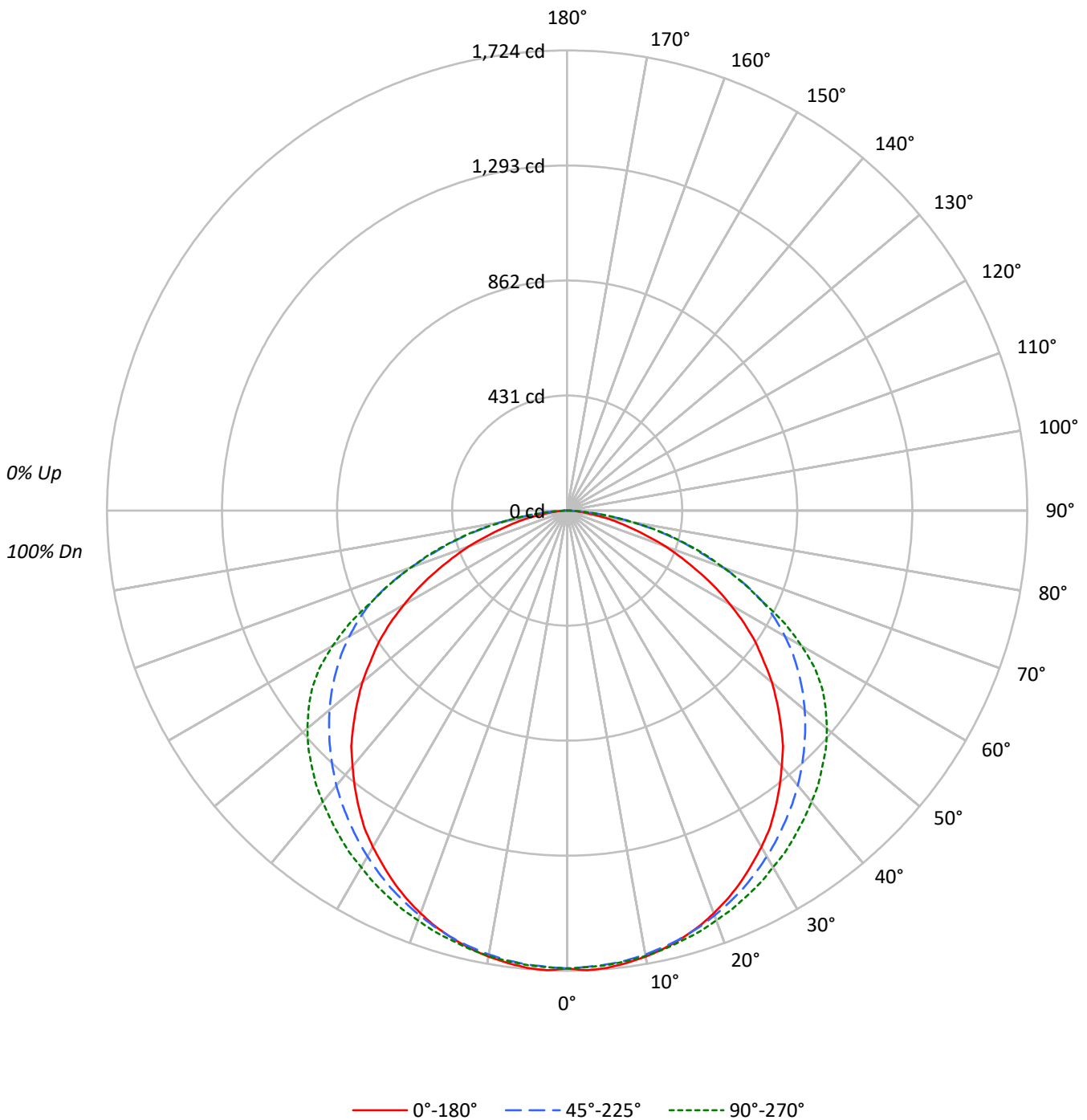
Input Watts (W): 57.82
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2308	2308	2308
5°	2322	2305	2309
10°	2319	2307	2315
15°	2311	2309	2323
20°	2299	2311	2339
25°	2282	2317	2365
30°	2261	2325	2397
35°	2234	2338	2444
40°	2197	2362	2502
45°	2153	2390	2575
50°	2098	2433	2659
55°	2022	2483	2739
60°	1900	2534	2731
65°	1734	2574	2570
70°	1541	2446	2446
75°	1255	2255	2284
80°	968	1947	1914
85°	672	1278	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.0
10°-20°	468.6	8.7
20°-30°	720.4	13.4
30°-40°	891.2	16.5
40°-50°	964.9	17.9
50°-60°	925.4	17.2
60°-70°	734.6	13.6
70°-80°	421.9	7.8
80°-90°	96.9	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°	1351.6	25.1
0°-40°	2242.8	41.6
0°-60°	4133.2	76.7
0°-90°	5386.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5386.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1720	1711	1707	1704	1710	163
15°	1659	1655	1658	1660	1668	468
25°	1537	1541	1561	1580	1593	708
35°	1360	1378	1423	1467	1488	851
45°	1131	1175	1256	1326	1353	873
55°	862	938	1058	1138	1168	767
65°	545	674	808	820	807	541
75°	241	389	434	438	439	262
85°	44	76	83	79	77	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.3	1715.3	1715.3	1715.3	1715.3
2.5°	1723.7	1715.3	1711.0	1708.2	1712.4
5°	1719.5	1711.0	1706.8	1704.0	1709.6
7.5°	1709.6	1702.6	1699.8	1698.4	1702.6
10°	1697.0	1690.0	1688.6	1687.2	1694.2
12.5°	1680.2	1674.5	1674.5	1674.5	1683.0
15°	1659.1	1654.9	1657.7	1660.5	1667.5
17.5°	1635.2	1631.0	1638.1	1643.7	1653.5
20°	1605.8	1605.8	1614.2	1622.6	1633.8
22.5°	1573.5	1576.3	1588.9	1603.0	1615.6
25°	1537.0	1541.2	1560.9	1580.5	1593.1
27.5°	1496.3	1504.7	1530.0	1555.2	1570.7
30°	1455.6	1464.0	1496.3	1527.2	1542.6
32.5°	1412.1	1421.9	1461.2	1497.7	1518.7
35°	1360.1	1378.4	1423.3	1466.8	1487.9
37.5°	1306.8	1332.1	1385.4	1434.5	1457.0
40°	1250.6	1281.5	1344.7	1400.8	1424.7
42.5°	1197.3	1229.6	1301.2	1364.3	1392.4
45°	1131.3	1174.9	1256.3	1326.4	1353.1
47.5°	1066.8	1118.7	1209.9	1284.3	1315.2
50°	1002.2	1059.8	1162.2	1243.6	1270.3
52.5°	929.2	999.4	1111.7	1193.1	1221.2
55°	861.8	937.6	1058.3	1138.4	1167.8
57.5°	787.4	873.1	1003.6	1082.2	1100.5
60°	706.0	807.1	941.8	1009.2	1014.8
62.5°	628.8	742.5	878.7	920.8	922.2
65°	544.6	673.7	808.5	819.7	807.1
67.5°	466.0	600.8	721.5	713.1	717.3
70°	391.6	532.0	621.8	626.0	621.8
72.5°	310.2	460.4	523.6	533.4	534.8
75°	241.4	388.8	433.7	437.9	439.3
77.5°	183.9	311.6	338.3	345.3	349.5
80°	124.9	217.6	251.3	254.1	247.0
82.5°	81.4	140.4	160.0	160.0	158.6
85°	43.5	75.8	82.8	78.6	77.2
87.5°	15.4	22.5	25.3	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)