

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: P225700

Luminaire Tested: **24AC-LD5-63-SQP-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: P225700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35754)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-63-SQP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP 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: 5126.9 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.45
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

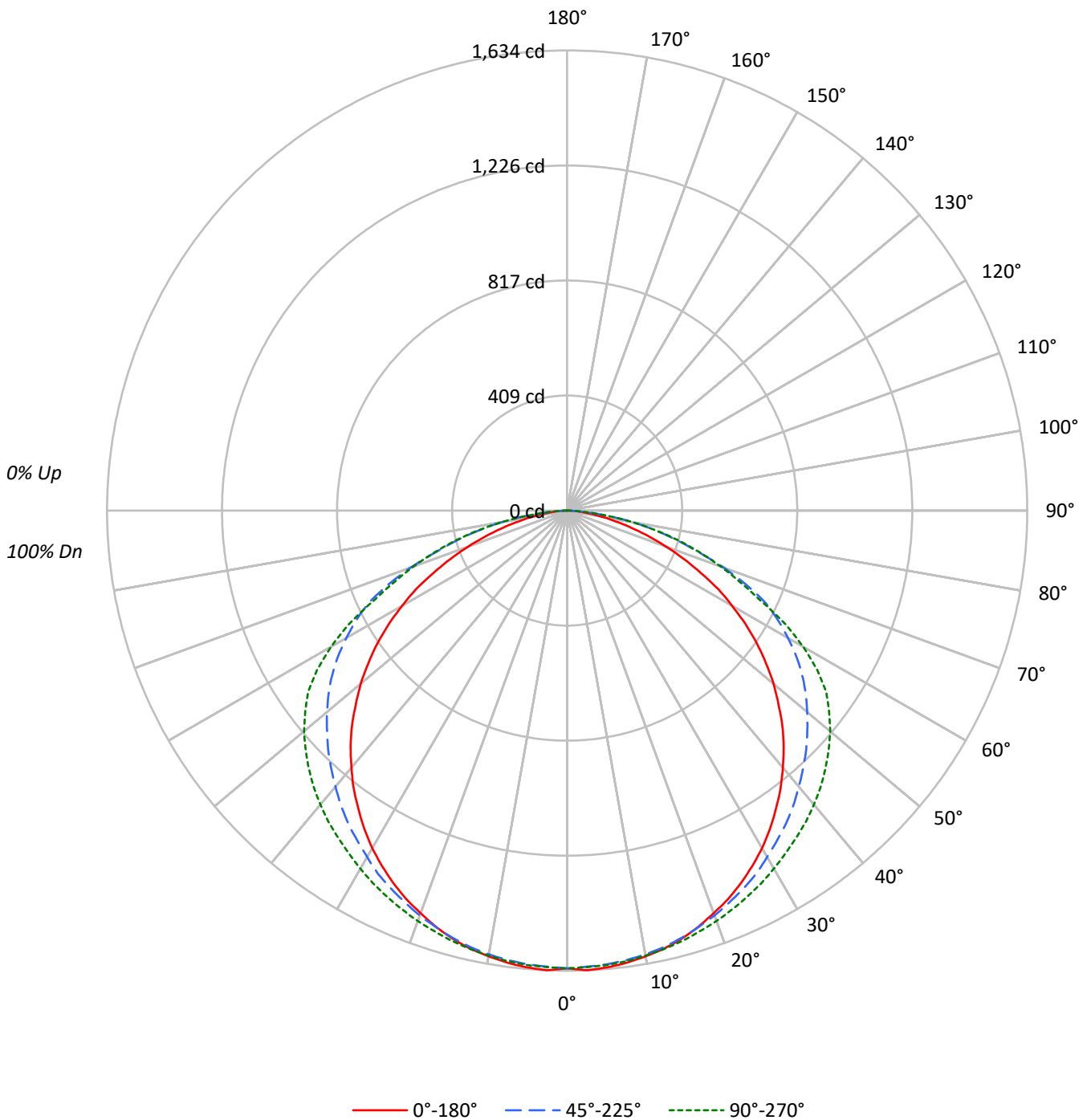
Input Watts (W): 57.82
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	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	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	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	29	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2187	2187	2187
5°	2199	2184	2188
10°	2196	2186	2192
15°	2192	2188	2204
20°	2179	2191	2221
25°	2167	2198	2246
30°	2150	2207	2281
35°	2123	2227	2329
40°	2093	2248	2394
45°	2057	2284	2468
50°	2004	2330	2553
55°	1929	2390	2634
60°	1820	2436	2606
65°	1667	2480	2418
70°	1469	2325	2281
75°	1226	2087	2131
80°	968	1816	1805
85°	693	1149	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	3.0
10°-20°	444.1	8.7
20°-30°	683.6	13.3
30°-40°	848.0	16.5
40°-50°	921.3	18.0
50°-60°	887.6	17.3
60°-70°	700.3	13.7
70°-80°	397.0	7.7
80°-90°	91.0	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°	1281.7	25.0
0°-40°	2129.7	41.5
0°-60°	3938.6	76.8
0°-90°	5126.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5126.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1628	1621	1617	1614	1620	155
15°	1574	1569	1571	1574	1582	444
25°	1460	1461	1481	1499	1513	673
35°	1293	1310	1356	1397	1418	809
45°	1081	1117	1200	1269	1297	832
55°	822	898	1019	1095	1123	733
65°	524	648	779	771	759	520
75°	236	375	401	407	410	254
85°	45	73	74	74	73	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625.4	1625.4	1625.4	1625.4	1625.4
2.5°	1633.8	1625.4	1621.2	1618.4	1622.6
5°	1628.2	1621.2	1617.0	1614.2	1619.8
7.5°	1619.8	1612.8	1610.0	1607.1	1614.2
10°	1607.1	1601.5	1600.1	1598.7	1604.3
12.5°	1593.1	1587.5	1587.5	1588.9	1594.5
15°	1573.5	1569.2	1570.7	1573.5	1581.9
17.5°	1549.6	1545.4	1551.0	1556.6	1566.4
20°	1521.5	1521.5	1529.9	1538.4	1551.0
22.5°	1493.5	1493.5	1506.1	1520.1	1532.8
25°	1459.8	1461.2	1480.8	1499.1	1513.1
27.5°	1423.3	1427.5	1454.2	1475.2	1492.0
30°	1384.0	1391.0	1420.5	1451.3	1468.2
32.5°	1340.5	1350.3	1388.2	1426.1	1442.9
35°	1292.7	1309.6	1355.9	1396.6	1417.7
37.5°	1245.0	1263.3	1319.4	1367.1	1392.4
40°	1191.7	1219.7	1280.1	1336.2	1362.9
42.5°	1138.3	1167.8	1240.8	1304.0	1332.0
45°	1080.8	1117.3	1200.1	1268.9	1296.9
47.5°	1017.6	1065.3	1156.6	1231.0	1259.0
50°	957.3	1012.0	1113.1	1190.3	1219.7
52.5°	889.9	954.5	1068.2	1146.8	1172.0
55°	822.5	898.3	1019.0	1094.8	1122.9
57.5°	750.9	836.6	965.7	1035.9	1052.7
60°	676.5	777.6	905.3	968.5	968.5
62.5°	605.0	713.0	845.0	871.6	874.5
65°	523.6	648.5	779.0	770.6	759.4
67.5°	447.8	585.3	689.2	663.9	665.3
70°	373.4	516.5	590.9	576.9	579.7
72.5°	301.8	444.9	487.1	492.7	492.7
75°	235.8	374.8	401.4	407.0	409.9
77.5°	175.5	300.4	318.6	322.8	320.0
80°	124.9	204.9	234.4	231.6	233.0
82.5°	78.6	131.9	148.8	151.6	147.4
85°	44.9	73.0	74.4	74.4	73.0
87.5°	15.4	22.5	23.9	22.5	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)