

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: P225689

Luminaire Tested: **24AC-LD5-48-SQP-UNV-L830-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: P225689
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-LD5-48-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH SQP LENS
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823.1 lumens
Efficiency: N/A
Efficacy: 91.2 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

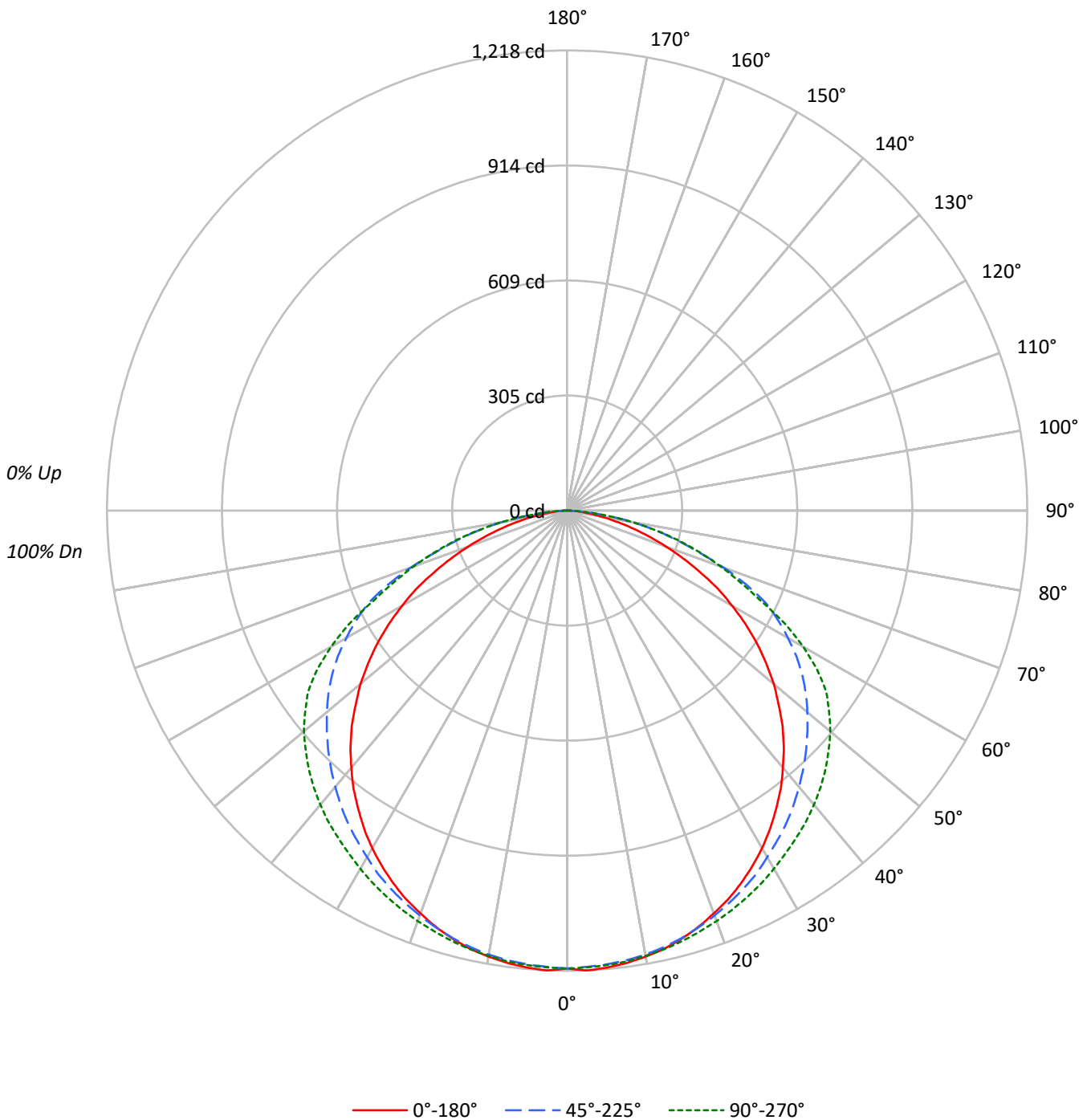
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	1631	1631	1631
5°	1640	1629	1631
10°	1637	1630	1635
15°	1634	1631	1643
20°	1625	1634	1656
25°	1616	1639	1675
30°	1603	1646	1701
35°	1583	1661	1736
40°	1561	1677	1785
45°	1534	1703	1840
50°	1494	1737	1904
55°	1439	1783	1964
60°	1358	1817	1943
65°	1243	1849	1803
70°	1095	1734	1701
75°	914	1556	1589
80°	722	1354	1347
85°	517	857	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.0
10°-20°	331.2	8.7
20°-30°	509.8	13.3
30°-40°	632.4	16.5
40°-50°	687.0	18.0
50°-60°	661.9	17.3
60°-70°	522.2	13.7
70°-80°	296.0	7.7
80°-90°	67.9	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°	955.8	25.0
0°-40°	1588.2	41.5
0°-60°	2937.0	76.8
0°-90°	3823.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1214	1209	1206	1204	1208	115
15°	1173	1170	1171	1173	1180	331
25°	1089	1090	1104	1118	1128	502
35°	964	977	1011	1042	1057	603
45°	806	833	895	946	967	621
55°	613	670	760	816	837	547
65°	390	484	581	575	566	387
75°	176	280	299	304	306	189
85°	34	54	56	56	54	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1218.3	1212.1	1208.9	1206.8	1210.0
5°	1214.2	1208.9	1205.8	1203.7	1207.9
7.5°	1207.9	1202.6	1200.6	1198.5	1203.7
10°	1198.5	1194.3	1193.2	1192.2	1196.4
12.5°	1188.0	1183.8	1183.8	1184.9	1189.0
15°	1173.3	1170.2	1171.2	1173.3	1179.6
17.5°	1155.5	1152.4	1156.6	1160.8	1168.1
20°	1134.6	1134.6	1140.9	1147.2	1156.6
22.5°	1113.7	1113.7	1123.1	1133.6	1143.0
25°	1088.6	1089.6	1104.3	1117.9	1128.3
27.5°	1061.3	1064.5	1084.4	1100.1	1112.6
30°	1032.0	1037.3	1059.3	1082.3	1094.8
32.5°	999.6	1006.9	1035.2	1063.4	1076.0
35°	964.0	976.6	1011.1	1041.5	1057.2
37.5°	928.4	942.0	983.9	1019.5	1038.3
40°	888.6	909.6	954.6	996.4	1016.3
42.5°	848.9	870.8	925.3	972.4	993.3
45°	806.0	833.2	894.9	946.2	967.1
47.5°	758.9	794.4	862.5	917.9	938.9
50°	713.8	754.7	830.0	887.6	909.6
52.5°	663.6	711.7	796.5	855.1	874.0
55°	613.4	669.9	759.9	816.4	837.4
57.5°	560.0	623.8	720.1	772.5	785.0
60°	504.5	579.9	675.1	722.2	722.2
62.5°	451.1	531.7	630.1	650.0	652.1
65°	390.4	483.6	580.9	574.6	566.3
67.5°	333.9	436.5	513.9	495.1	496.1
70°	278.4	385.2	440.7	430.2	432.3
72.5°	225.0	331.8	363.2	367.4	367.4
75°	175.8	279.5	299.4	303.5	305.6
77.5°	130.8	224.0	237.6	240.7	238.6
80°	93.2	152.8	174.8	172.7	173.8
82.5°	58.6	98.4	110.9	113.0	109.9
85°	33.5	54.4	55.5	55.5	54.4
87.5°	11.5	16.7	17.8	16.7	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)