

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: P276291

Luminaire Tested: **24CZ2-40-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3594.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

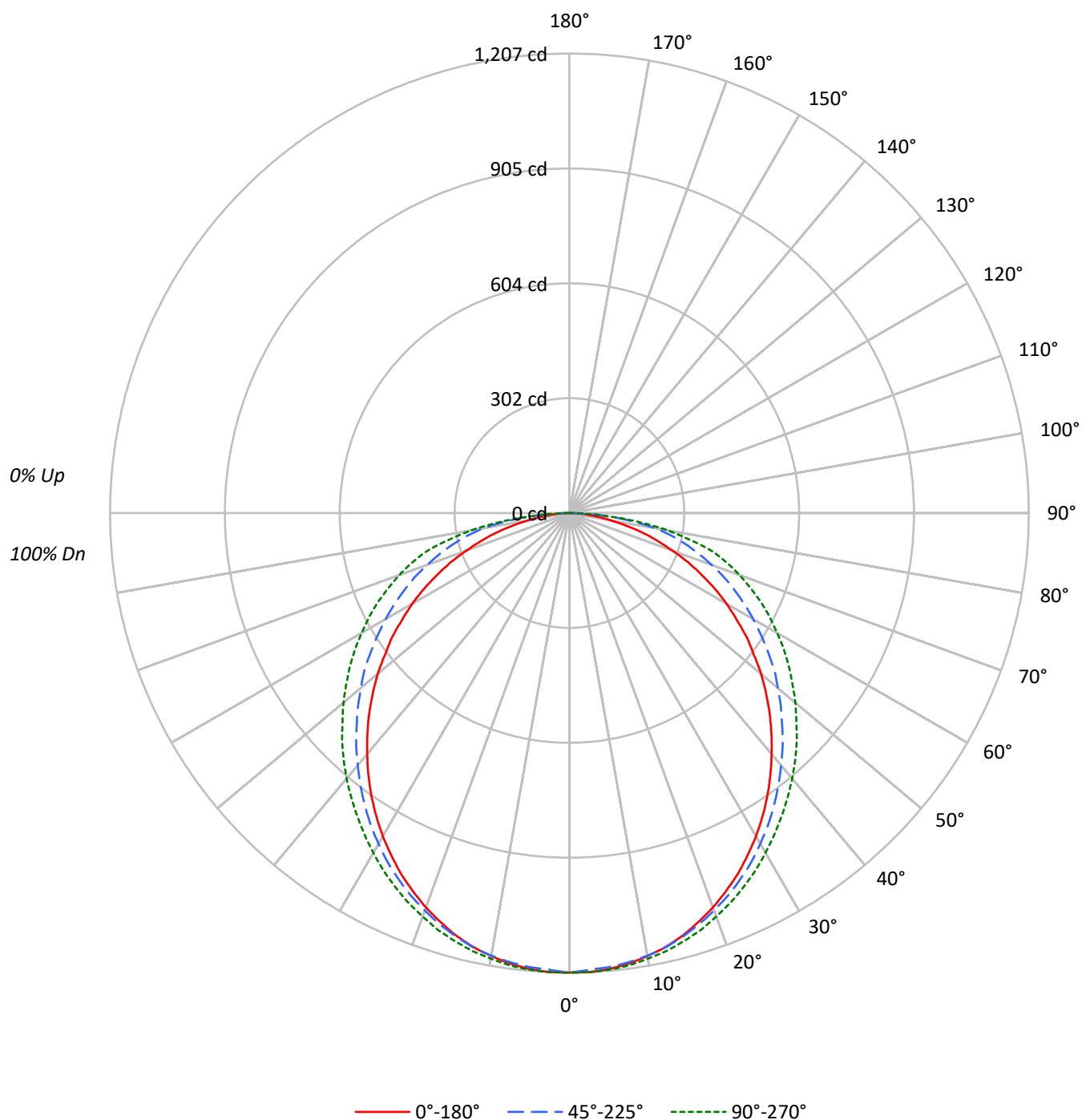
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	98	94	105	100	96	92		96	93	89		92	89	87		89	86	84
2	98	89	82	76	95	87	80	75		83	78	73		80	75	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	60		68	63	58
4	81	69	59	52	79	67	59	52		65	57	51		62	56	51		60	55	50
5	74	61	52	45	72	60	51	45		58	50	44		56	49	44		54	48	43
6	69	55	46	39	67	54	45	39		52	44	39		50	44	38		49	43	38
7	64	50	41	35	62	49	40	34		47	40	34		46	39	34		45	38	34
8	59	45	37	31	58	45	36	31		43	36	30		42	35	30		41	35	30
9	55	42	33	28	54	41	33	28		40	33	27		39	32	27		38	32	27
10	52	38	30	25	51	38	30	25		37	30	25		36	29	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1624	1624	1624
5°	1624	1617	1627
10°	1614	1613	1624
15°	1601	1604	1621
20°	1579	1591	1615
25°	1553	1576	1608
30°	1523	1558	1601
35°	1490	1539	1596
40°	1452	1519	1599
45°	1415	1504	1607
50°	1376	1497	1622
55°	1334	1495	1652
60°	1282	1501	1695
65°	1215	1524	1769
70°	1128	1562	1869
75°	1029	1640	2027
80°	846	1767	2026
85°	648	1630	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.2
10°-20°	325.9	9.1
20°-30°	490.4	13.6
30°-40°	587.7	16.3
40°-50°	612.4	17.0
50°-60°	569.8	15.9
60°-70°	469.3	13.1
70°-80°	319.6	8.9
80°-90°	105.5	2.9
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°	930.4	25.9
0°-40°	1518.1	42.2
0°-60°	2700.4	75.1
0°-90°	3594.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1202	1202	1197	1203	1204	114
15°	1149	1151	1152	1163	1164	324
25°	1046	1051	1062	1080	1083	482
35°	907	918	937	962	972	567
45°	744	759	791	830	845	574
55°	569	588	637	688	704	507
65°	382	414	479	535	556	379
75°	198	242	316	372	390	209
85°	42	82	106	113	113	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1206.9	1206.9	1200.9	1206.9	1206.9
5°	1202.1	1202.1	1197.3	1203.3	1204.5
7.5°	1193.7	1194.9	1190.1	1197.3	1198.5
10°	1181.7	1182.9	1180.5	1187.7	1188.9
12.5°	1167.4	1168.5	1168.5	1176.9	1178.1
15°	1149.4	1150.6	1151.8	1162.6	1163.8
17.5°	1126.6	1130.2	1132.6	1145.8	1148.2
20°	1102.6	1106.2	1111.0	1125.4	1127.8
22.5°	1075.0	1079.8	1088.2	1103.8	1107.4
25°	1046.2	1051.0	1061.8	1079.8	1083.4
27.5°	1013.8	1021.0	1034.2	1053.4	1058.2
30°	980.2	987.4	1003.0	1023.4	1030.6
32.5°	944.2	953.8	971.8	994.6	1001.8
35°	907.0	917.8	937.0	962.2	971.8
37.5°	867.4	879.4	902.2	929.8	941.8
40°	826.6	841.0	865.0	897.4	910.6
42.5°	785.8	799.0	829.0	863.8	878.2
45°	743.8	759.4	790.6	830.2	844.6
47.5°	700.6	716.2	753.4	795.4	808.6
50°	657.5	673.1	715.0	759.4	775.0
52.5°	610.7	631.1	679.1	723.4	739.0
55°	568.7	587.9	637.1	687.5	704.2
57.5°	520.7	543.5	597.5	650.3	668.3
60°	476.3	500.3	557.9	611.9	629.9
62.5°	430.7	457.1	518.3	573.5	593.9
65°	381.5	413.9	478.7	535.1	555.5
67.5°	337.1	370.7	439.1	496.7	514.7
70°	286.7	327.5	397.1	454.7	475.1
72.5°	243.5	284.3	357.5	413.9	434.3
75°	198.0	242.3	315.5	371.9	389.9
77.5°	152.4	201.6	274.7	317.9	323.9
80°	109.2	160.8	228.0	253.1	261.5
82.5°	76.8	123.6	168.0	184.8	189.6
85°	42.0	81.6	105.6	112.8	112.8
87.5°	18.0	34.8	42.0	43.2	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)