

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: P259312

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-39-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4116.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

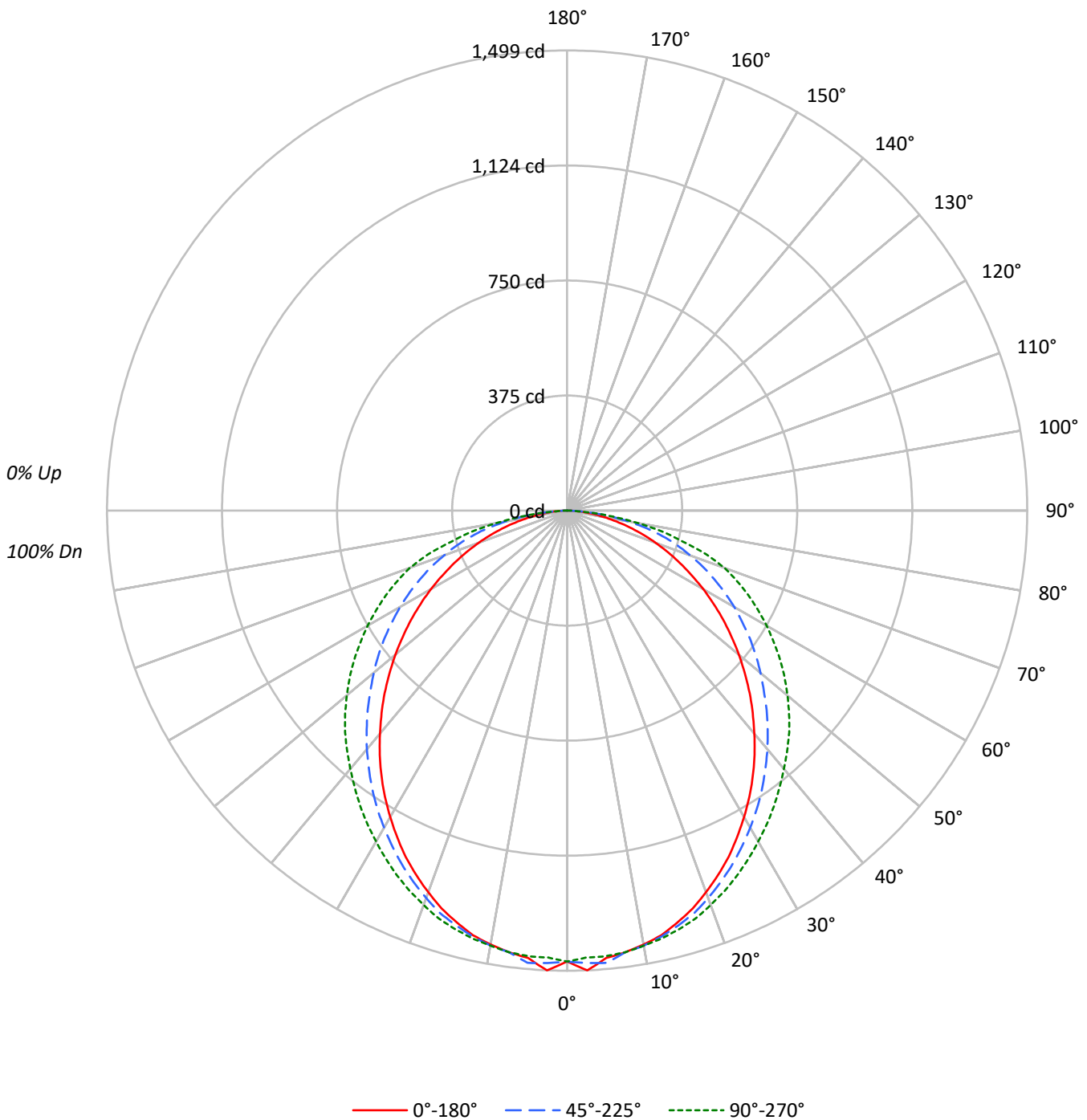
Input Watts (W): 31.434  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3953	3953	3953
5°	3952	3995	3936
10°	3921	3932	3932
15°	3870	3898	3931
20°	3789	3846	3915
25°	3697	3780	3893
30°	3582	3707	3869
35°	3465	3636	3860
40°	3333	3565	3860
45°	3199	3496	3892
50°	3059	3444	3921
55°	2911	3409	3972
60°	2758	3383	4040
65°	2587	3365	4142
70°	2409	3354	4283
75°	2185	3350	4058
80°	1892	3102	3598
85°	1606	2350	2288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	3.4
10°-20°	394.7	9.6
20°-30°	587.1	14.3
30°-40°	694.4	16.9
40°-50°	713.7	17.3
50°-60°	652.2	15.8
60°-70°	521.7	12.7
70°-80°	327.4	8.0
80°-90°	85.3	2.1
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°	1121.2	27.2
0°-40°	1815.6	44.1
0°-60°	3181.6	77.3
0°-90°	4116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1463	1463	1479	1469	1457	139
15°	1389	1391	1399	1407	1411	391
25°	1245	1253	1273	1295	1311	572
35°	1055	1069	1107	1149	1175	659
45°	841	863	919	987	1023	648
55°	620	650	727	807	847	555
65°	406	442	528	608	650	403
75°	210	250	322	370	390	223
85°	52	66	76	74	74	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1499.2	1493.2	1475.1	1463.1	1457.1
5°	1463.1	1463.1	1479.1	1469.1	1457.1
7.5°	1451.1	1451.1	1451.1	1481.1	1451.1
10°	1435.1	1437.1	1439.1	1451.1	1439.1
12.5°	1417.1	1417.1	1421.1	1425.1	1427.1
15°	1389.1	1391.1	1399.1	1407.1	1411.1
17.5°	1359.1	1365.1	1375.1	1385.1	1393.1
20°	1323.0	1331.0	1343.0	1359.1	1367.1
22.5°	1285.0	1293.0	1309.0	1327.0	1341.0
25°	1245.0	1253.0	1273.0	1295.0	1311.0
27.5°	1198.9	1208.9	1233.0	1263.0	1279.0
30°	1152.9	1164.9	1192.9	1227.0	1245.0
32.5°	1104.9	1118.9	1150.9	1188.9	1210.9
35°	1054.8	1068.8	1106.9	1148.9	1174.9
37.5°	1002.8	1018.8	1060.8	1108.9	1136.9
40°	948.7	966.7	1014.8	1066.8	1098.9
42.5°	894.7	914.7	966.7	1028.8	1060.8
45°	840.7	862.7	918.7	986.8	1022.8
47.5°	784.6	810.6	868.7	944.7	980.8
50°	730.6	756.6	822.6	900.7	936.7
52.5°	674.5	704.5	774.6	854.7	892.7
55°	620.5	650.5	726.6	806.6	846.7
57.5°	566.4	596.5	676.5	758.6	798.6
60°	512.4	544.4	628.5	708.5	750.6
62.5°	458.4	492.4	578.4	660.5	700.5
65°	406.3	442.3	528.4	608.5	650.5
67.5°	356.3	394.3	478.4	556.4	598.5
70°	306.2	344.3	426.3	502.4	544.4
72.5°	258.2	296.2	376.3	444.3	476.4
75°	210.2	250.2	322.2	370.3	390.3
77.5°	164.1	204.2	266.2	298.2	320.2
80°	122.1	156.1	200.2	224.2	232.2
82.5°	84.1	112.1	140.1	146.1	150.1
85°	52.0	66.1	76.1	74.1	74.1
87.5°	24.0	26.0	22.0	16.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)