

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: P259311

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259311
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

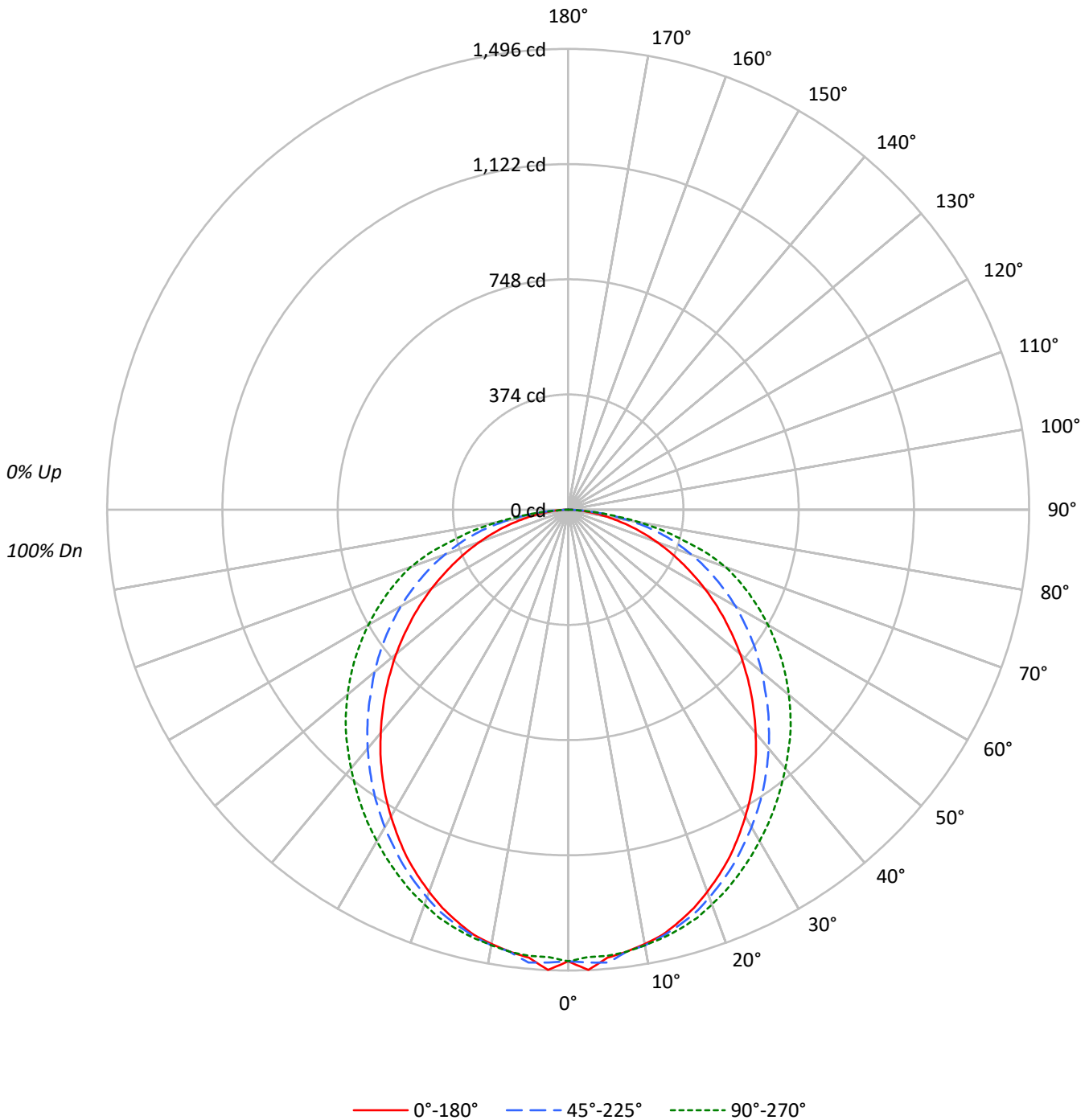
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3944	3944	3944
5°	3943	3986	3927
10°	3912	3923	3923
15°	3860	3888	3922
20°	3779	3837	3905
25°	3687	3771	3883
30°	3574	3698	3859
35°	3457	3627	3850
40°	3325	3556	3851
45°	3191	3488	3883
50°	3051	3435	3912
55°	2904	3400	3963
60°	2751	3374	4030
65°	2581	3356	4132
70°	2404	3346	4273
75°	2180	3343	4049
80°	1888	3095	3589
85°	1602	2343	2282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	3.4
10°-20°	393.7	9.6
20°-30°	585.7	14.3
30°-40°	692.7	16.9
40°-50°	712.0	17.3
50°-60°	650.6	15.8
60°-70°	520.5	12.7
70°-80°	326.6	8.0
80°-90°	85.1	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°	1118.5	27.2
0°-40°	1811.2	44.1
0°-60°	3173.8	77.3
0°-90°	4106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1460	1460	1476	1466	1454	139
15°	1386	1388	1396	1404	1408	390
25°	1242	1250	1270	1292	1308	571
35°	1052	1066	1104	1146	1172	658
45°	839	861	916	984	1020	647
55°	619	649	725	805	845	554
65°	405	441	527	607	649	402
75°	210	250	322	369	389	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°	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1495.5	1489.5	1471.6	1459.6	1453.6
5°	1459.6	1459.6	1475.6	1465.6	1453.6
7.5°	1447.6	1447.6	1447.6	1477.5	1447.6
10°	1431.6	1433.6	1435.6	1447.6	1435.6
12.5°	1413.7	1413.7	1417.6	1421.6	1423.6
15°	1385.7	1387.7	1395.7	1403.7	1407.7
17.5°	1355.8	1361.7	1371.7	1381.7	1389.7
20°	1319.8	1327.8	1339.8	1355.8	1363.7
22.5°	1281.9	1289.9	1305.8	1323.8	1337.8
25°	1241.9	1249.9	1269.9	1291.9	1307.8
27.5°	1196.0	1206.0	1230.0	1259.9	1275.9
30°	1150.1	1162.1	1190.0	1224.0	1241.9
32.5°	1102.2	1116.1	1148.1	1186.0	1208.0
35°	1052.3	1066.2	1104.2	1146.1	1172.1
37.5°	1000.3	1016.3	1058.2	1106.2	1134.1
40°	946.4	964.4	1012.3	1064.2	1096.2
42.5°	892.5	912.5	964.4	1026.3	1058.2
45°	838.6	860.6	916.5	984.4	1020.3
47.5°	782.7	808.7	866.6	942.4	978.4
50°	728.8	754.7	820.6	898.5	934.5
52.5°	672.9	702.8	772.7	852.6	890.5
55°	619.0	648.9	724.8	804.7	844.6
57.5°	565.1	595.0	674.9	756.7	796.7
60°	511.2	543.1	627.0	706.8	748.8
62.5°	457.2	491.2	577.0	658.9	698.8
65°	405.3	441.3	527.1	607.0	648.9
67.5°	355.4	393.3	477.2	555.1	597.0
70°	305.5	343.4	425.3	501.2	543.1
72.5°	257.6	295.5	375.4	443.3	475.2
75°	209.7	249.6	321.5	369.4	389.4
77.5°	163.7	203.7	265.6	297.5	319.5
80°	121.8	155.7	199.7	223.6	231.6
82.5°	83.9	111.8	139.8	145.8	149.8
85°	51.9	65.9	75.9	73.9	73.9
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)