

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: P259374

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259374
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-LD5-44-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4165.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

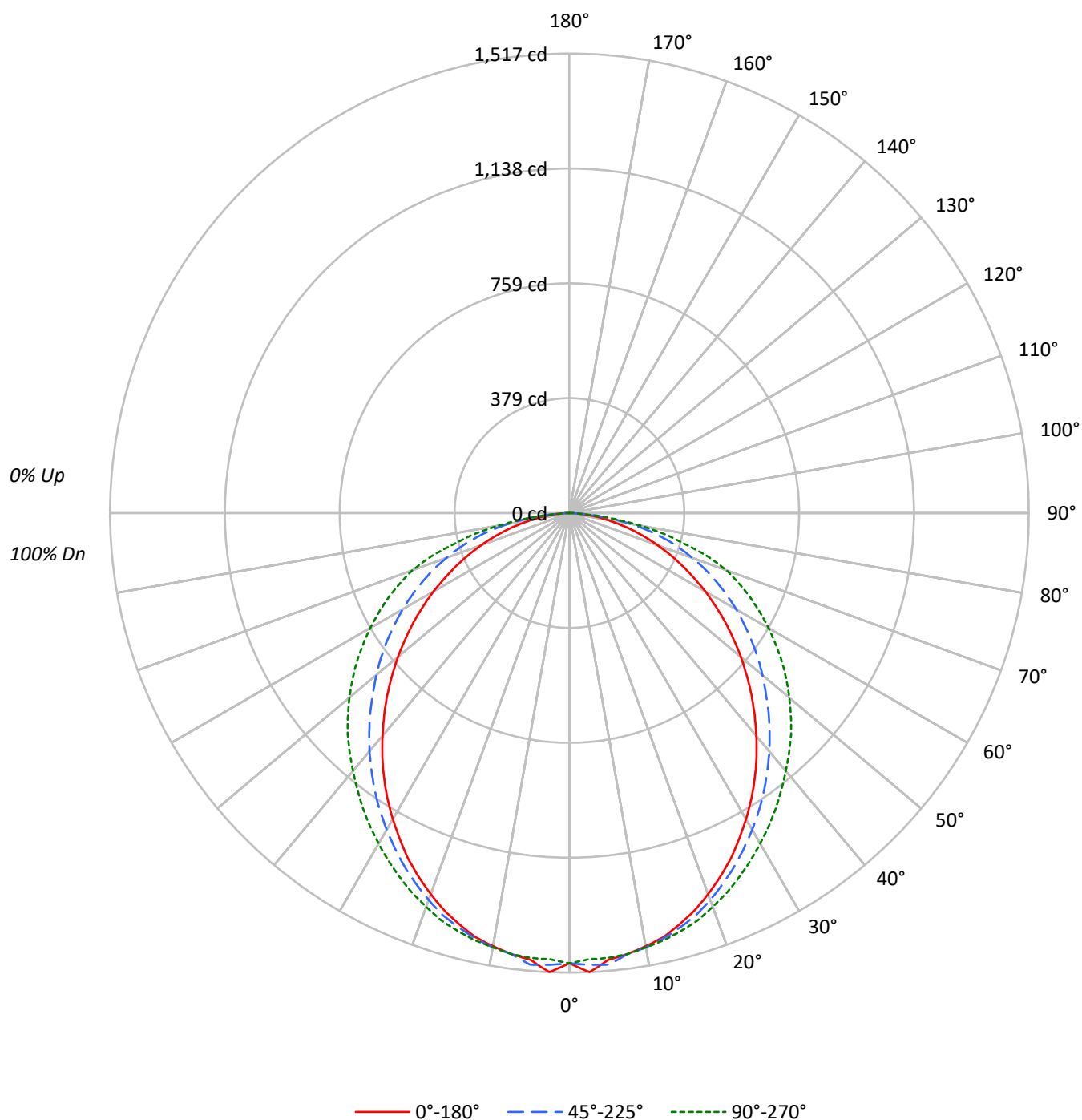
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4000	4000	4000
5°	3999	4043	3983
10°	3968	3979	3979
15°	3916	3944	3978
20°	3834	3892	3961
25°	3741	3825	3939
30°	3625	3751	3915
35°	3506	3679	3906
40°	3372	3607	3906
45°	3237	3538	3939
50°	3095	3485	3968
55°	2946	3449	4019
60°	2791	3423	4088
65°	2618	3405	4191
70°	2438	3394	4334
75°	2211	3391	4106
80°	1914	3138	3640
85°	1627	2377	2313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.4
10°-20°	399.4	9.6
20°-30°	594.1	14.3
30°-40°	702.7	16.9
40°-50°	722.2	17.3
50°-60°	660.0	15.8
60°-70°	528.0	12.7
70°-80°	331.3	8.0
80°-90°	86.3	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°	1134.5	27.2
0°-40°	1837.2	44.1
0°-60°	3219.4	77.3
0°-90°	4165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1481	1481	1497	1487	1474	141
15°	1406	1408	1416	1424	1428	396
25°	1260	1268	1288	1310	1327	579
35°	1067	1082	1120	1163	1189	667
45°	851	873	930	998	1035	656
55°	628	658	735	816	857	562
65°	411	448	535	616	658	408
75°	213	253	326	375	395	226
85°	53	67	77	75	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.6	1486.6	1486.6	1486.6	1486.6
2.5°	1517.0	1510.9	1492.7	1480.6	1474.5
5°	1480.6	1480.6	1496.8	1486.6	1474.5
7.5°	1468.4	1468.4	1468.4	1498.8	1468.4
10°	1452.2	1454.2	1456.2	1468.4	1456.2
12.5°	1434.0	1434.0	1438.0	1442.1	1444.1
15°	1405.6	1407.6	1415.7	1423.8	1427.9
17.5°	1375.2	1381.3	1391.4	1401.6	1409.7
20°	1338.8	1346.9	1359.0	1375.2	1383.3
22.5°	1300.3	1308.4	1324.6	1342.8	1357.0
25°	1259.8	1267.9	1288.1	1310.4	1326.6
27.5°	1213.2	1223.3	1247.6	1278.0	1294.2
30°	1166.6	1178.8	1207.1	1241.6	1259.8
32.5°	1118.0	1132.2	1164.6	1203.1	1225.4
35°	1067.4	1081.6	1120.0	1162.6	1188.9
37.5°	1014.7	1030.9	1073.5	1122.1	1150.4
40°	960.0	978.3	1026.9	1079.5	1111.9
42.5°	905.3	925.6	978.3	1041.0	1073.5
45°	850.7	872.9	929.6	998.5	1035.0
47.5°	793.9	820.3	879.0	956.0	992.4
50°	739.3	765.6	832.4	911.4	947.9
52.5°	682.6	712.9	783.8	864.8	903.3
55°	627.9	658.2	735.2	816.2	856.7
57.5°	573.2	603.6	684.6	767.6	808.1
60°	518.5	550.9	636.0	717.0	759.5
62.5°	463.8	498.2	585.3	668.4	708.9
65°	411.2	447.6	534.7	615.7	658.2
67.5°	360.5	399.0	484.1	563.1	605.6
70°	309.9	348.4	431.4	508.4	550.9
72.5°	261.3	299.8	380.8	449.6	482.0
75°	212.7	253.2	326.1	374.7	394.9
77.5°	166.1	206.6	269.4	301.8	324.1
80°	123.5	158.0	202.5	226.8	234.9
82.5°	85.1	113.4	141.8	147.9	151.9
85°	52.7	66.8	77.0	74.9	74.9
87.5°	24.3	26.3	22.3	16.2	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)