

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: P259314

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259314
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

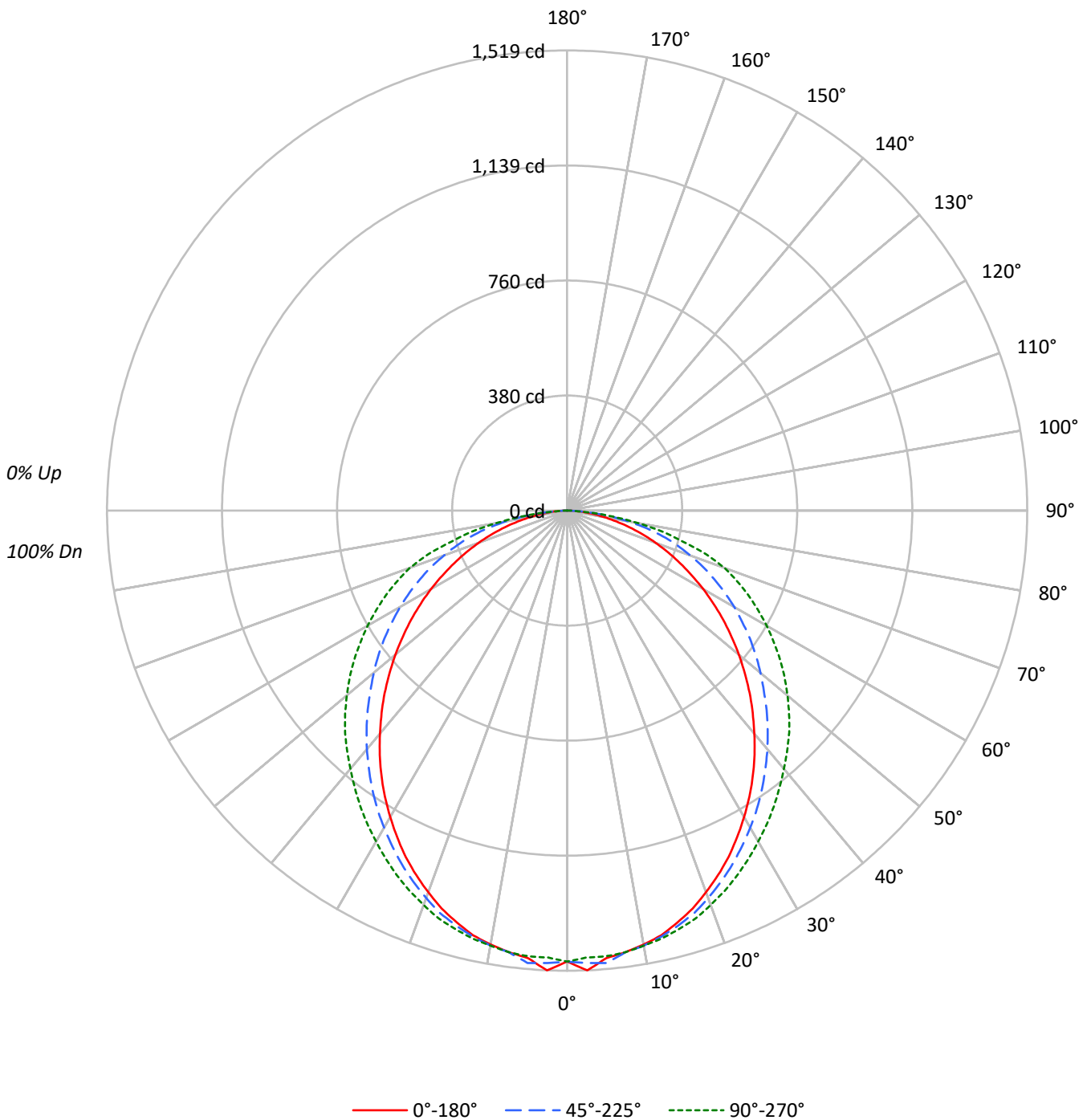
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4006	4006	4006
5°	4005	4049	3989
10°	3974	3985	3985
15°	3921	3950	3984
20°	3839	3897	3967
25°	3746	3830	3945
30°	3630	3756	3920
35°	3511	3685	3911
40°	3377	3612	3912
45°	3242	3543	3945
50°	3099	3490	3974
55°	2950	3454	4025
60°	2794	3428	4094
65°	2621	3410	4197
70°	2441	3399	4341
75°	2215	3396	4112
80°	1917	3143	3646
85°	1627	2381	2316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.4
10°-20°	400.0	9.6
20°-30°	595.0	14.3
30°-40°	703.7	16.9
40°-50°	723.3	17.3
50°-60°	660.9	15.8
60°-70°	528.7	12.7
70°-80°	331.8	8.0
80°-90°	86.4	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°	1136.2	27.2
0°-40°	1839.9	44.1
0°-60°	3224.1	77.3
0°-90°	4171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1483	1483	1499	1489	1477	141
15°	1408	1410	1418	1426	1430	396
25°	1262	1270	1290	1312	1328	580
35°	1069	1083	1122	1164	1191	668
45°	852	874	931	1000	1036	657
55°	629	659	736	817	858	562
65°	412	448	536	617	659	409
75°	213	254	327	375	396	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°	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1519.2	1513.1	1494.9	1482.7	1476.6
5°	1482.7	1482.7	1498.9	1488.8	1476.6
7.5°	1470.5	1470.5	1470.5	1500.9	1470.5
10°	1454.3	1456.3	1458.3	1470.5	1458.3
12.5°	1436.0	1436.0	1440.1	1444.1	1446.2
15°	1407.6	1409.7	1417.8	1425.9	1429.9
17.5°	1377.2	1383.3	1393.4	1403.6	1411.7
20°	1340.7	1348.8	1361.0	1377.2	1385.3
22.5°	1302.2	1310.3	1326.5	1344.8	1359.0
25°	1261.6	1269.7	1290.0	1312.3	1328.5
27.5°	1215.0	1225.1	1249.4	1279.9	1296.1
30°	1168.3	1180.5	1208.9	1243.3	1261.6
32.5°	1119.6	1133.8	1166.3	1204.8	1227.1
35°	1068.9	1083.1	1121.6	1164.2	1190.6
37.5°	1016.2	1032.4	1075.0	1123.7	1152.1
40°	961.4	979.7	1028.3	1081.1	1113.5
42.5°	906.6	926.9	979.7	1042.5	1075.0
45°	851.9	874.2	931.0	1000.0	1036.5
47.5°	795.1	821.5	880.3	957.4	993.9
50°	740.3	766.7	833.6	912.7	949.2
52.5°	683.5	714.0	785.0	866.1	904.6
55°	628.8	659.2	736.3	817.4	858.0
57.5°	574.0	604.4	685.6	768.7	809.3
60°	519.2	551.7	636.9	718.0	760.6
62.5°	464.5	499.0	586.2	669.3	709.9
65°	411.7	448.3	535.5	616.6	659.2
67.5°	361.0	399.6	484.8	563.9	606.5
70°	310.3	348.9	432.0	509.1	551.7
72.5°	261.7	300.2	381.3	450.3	482.7
75°	213.0	253.5	326.6	375.2	395.5
77.5°	166.3	206.9	269.8	302.2	324.5
80°	123.7	158.2	202.8	227.2	235.3
82.5°	85.2	113.6	142.0	148.1	152.1
85°	52.7	66.9	77.1	75.0	75.0
87.5°	24.3	26.4	22.3	16.2	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)