

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: P259315

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259315
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.0 lumens
Efficiency: N/A
Efficacy: 124.1 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

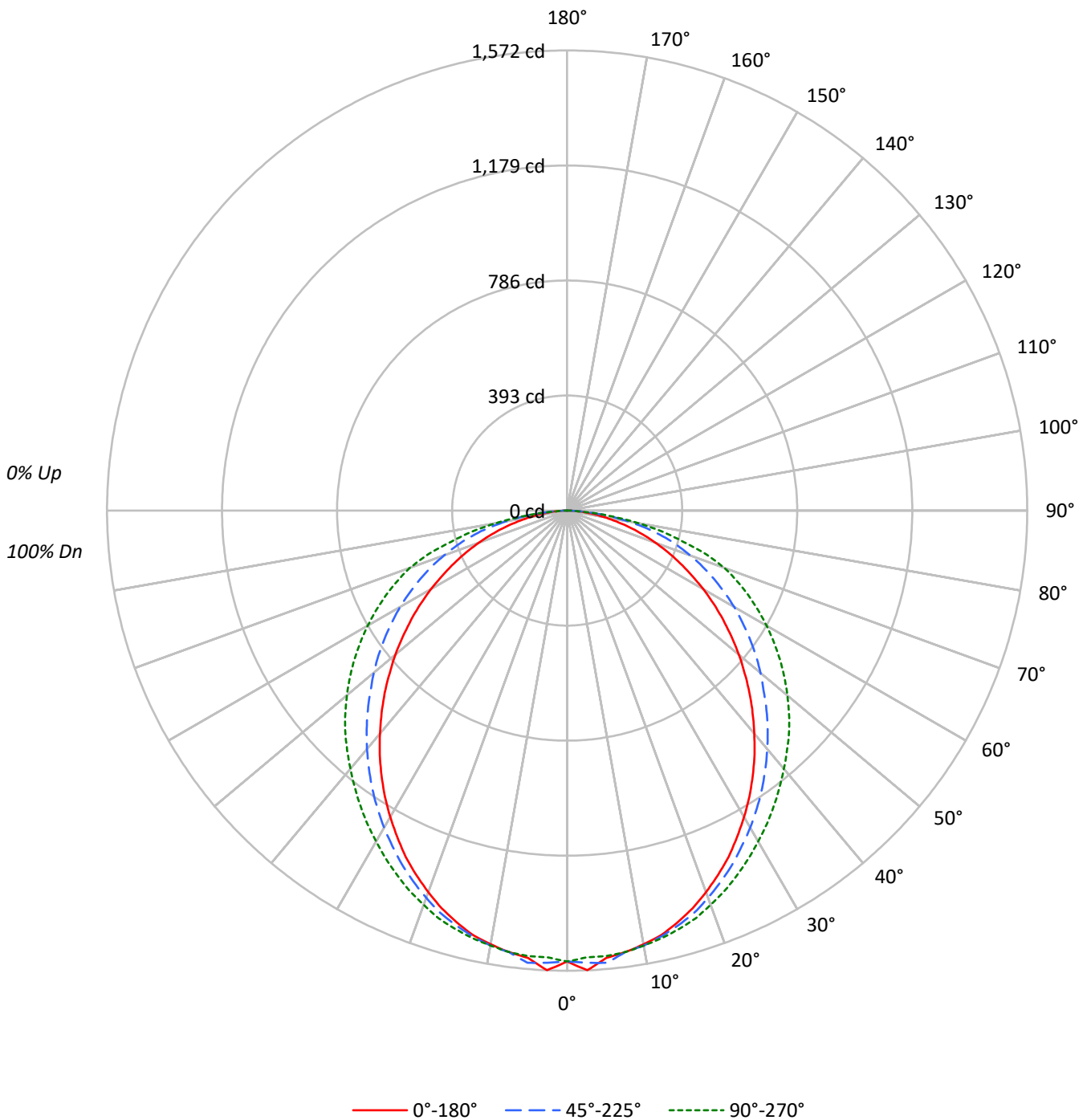
Input Watts (W): 34.782
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4145	4145	4145
5°	4143	4189	4126
10°	4111	4123	4123
15°	4057	4086	4121
20°	3972	4032	4104
25°	3875	3962	4081
30°	3755	3886	4056
35°	3633	3812	4046
40°	3494	3737	4047
45°	3354	3665	4080
50°	3206	3610	4111
55°	3052	3574	4164
60°	2891	3546	4235
65°	2713	3528	4343
70°	2526	3516	4490
75°	2290	3512	4255
80°	1984	3251	3772
85°	1686	2461	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.4
10°-20°	413.8	9.6
20°-30°	615.5	14.3
30°-40°	728.0	16.9
40°-50°	748.3	17.3
50°-60°	683.7	15.8
60°-70°	547.0	12.7
70°-80°	343.3	8.0
80°-90°	89.4	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°	1175.4	27.2
0°-40°	1903.4	44.1
0°-60°	3335.4	77.3
0°-90°	4315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1534	1534	1551	1540	1528	146
15°	1456	1458	1467	1475	1479	410
25°	1305	1314	1334	1358	1374	600
35°	1106	1120	1160	1204	1232	691
45°	881	904	963	1034	1072	679
55°	650	682	762	846	888	582
65°	426	464	554	638	682	423
75°	220	262	338	388	409	234
85°	55	69	80	78	78	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.2	1540.2	1540.2	1540.2	1540.2
2.5°	1571.6	1565.3	1546.5	1533.9	1527.6
5°	1533.9	1533.9	1550.7	1540.2	1527.6
7.5°	1521.3	1521.3	1521.3	1552.8	1521.3
10°	1504.5	1506.6	1508.7	1521.3	1508.7
12.5°	1485.6	1485.6	1489.8	1494.0	1496.1
15°	1456.2	1458.3	1466.7	1475.1	1479.3
17.5°	1424.8	1431.1	1441.5	1452.0	1460.4
20°	1387.0	1395.4	1408.0	1424.8	1433.2
22.5°	1347.1	1355.5	1372.3	1391.2	1405.9
25°	1305.2	1313.6	1334.5	1357.6	1374.4
27.5°	1256.9	1267.4	1292.6	1324.0	1340.8
30°	1208.6	1221.2	1250.6	1286.3	1305.2
32.5°	1158.3	1173.0	1206.5	1246.4	1269.5
35°	1105.8	1120.5	1160.4	1204.4	1231.7
37.5°	1051.3	1068.0	1112.1	1162.5	1191.8
40°	994.6	1013.5	1063.8	1118.4	1152.0
42.5°	938.0	958.9	1013.5	1078.5	1112.1
45°	881.3	904.4	963.1	1034.5	1072.2
47.5°	822.5	849.8	910.7	990.4	1028.2
50°	765.9	793.2	862.4	944.2	982.0
52.5°	707.1	738.6	812.1	896.0	935.9
55°	650.5	682.0	761.7	845.6	887.6
57.5°	593.8	625.3	709.2	795.3	837.2
60°	537.2	570.7	658.9	742.8	786.9
62.5°	480.5	516.2	606.4	692.4	734.4
65°	426.0	463.7	554.0	637.9	682.0
67.5°	373.5	413.4	501.5	583.3	627.4
70°	321.0	360.9	446.9	526.7	570.7
72.5°	270.7	310.6	394.5	465.8	499.4
75°	220.3	262.3	337.8	388.2	409.2
77.5°	172.1	214.0	279.1	312.7	335.7
80°	128.0	163.7	209.8	235.0	243.4
82.5°	88.1	117.5	146.9	153.2	157.4
85°	54.6	69.2	79.7	77.6	77.6
87.5°	25.2	27.3	23.1	16.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)