

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: P259540

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4166.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

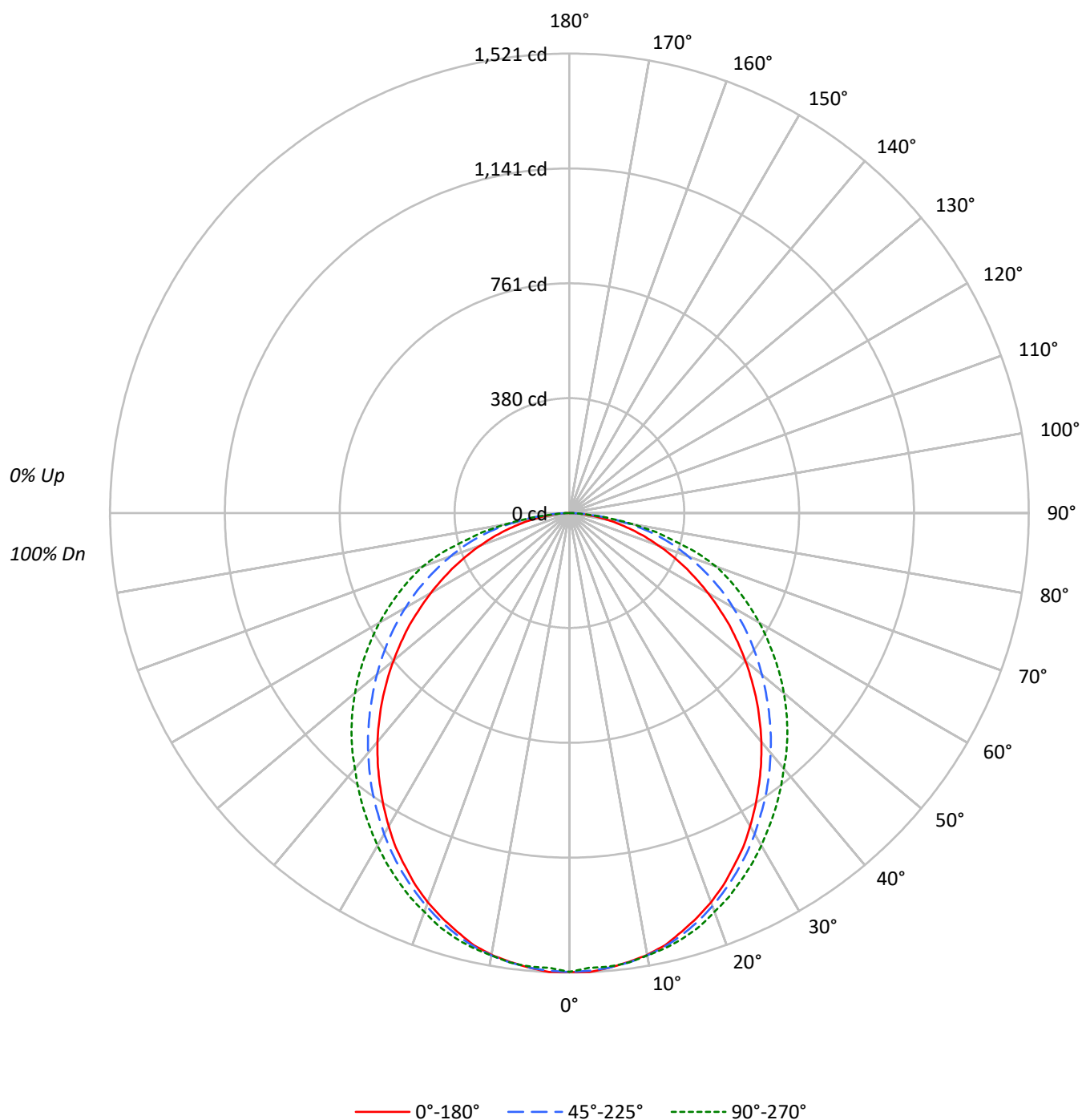
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4087	4087	4087
5°	4081	4081	4070
10°	4057	4062	4062
15°	3997	4025	4058
20°	3925	3965	4023
25°	3826	3892	3987
30°	3718	3811	3948
35°	3596	3727	3911
40°	3472	3641	3880
45°	3335	3556	3884
50°	3183	3485	3879
55°	3032	3427	3877
60°	2854	3371	3909
65°	2676	3326	3962
70°	2472	3290	4062
75°	2226	3267	3766
80°	1954	3039	3287
85°	1606	2285	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.4
10°-20°	407.4	9.8
20°-30°	605.1	14.5
30°-40°	712.3	17.1
40°-50°	726.2	17.4
50°-60°	654.9	15.7
60°-70°	515.9	12.4
70°-80°	318.2	7.6
80°-90°	82.6	2.0
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°	1156.0	27.7
0°-40°	1868.2	44.8
0°-60°	3249.3	78.0
0°-90°	4166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1511	1513	1511	1509	1507	143
15°	1435	1441	1445	1453	1457	405
25°	1289	1297	1311	1333	1343	594
35°	1094	1106	1135	1171	1191	685
45°	876	890	934	990	1020	676
55°	646	668	730	796	826	577
65°	420	450	522	588	622	416
75°	214	250	314	350	362	228
85°	52	66	74	70	66	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.8	1518.8	1518.8	1518.8	1518.8
2.5°	1520.8	1520.8	1516.8	1512.8	1506.7
5°	1510.7	1512.8	1510.7	1508.7	1506.7
7.5°	1498.7	1500.7	1500.7	1500.7	1500.7
10°	1484.7	1486.7	1486.7	1486.7	1486.7
12.5°	1464.7	1466.7	1468.7	1470.7	1474.7
15°	1434.7	1440.7	1444.7	1452.7	1456.7
17.5°	1404.7	1410.7	1416.7	1426.7	1434.7
20°	1370.7	1374.7	1384.7	1396.7	1404.7
22.5°	1332.7	1338.7	1348.7	1364.7	1376.7
25°	1288.6	1296.6	1310.7	1332.7	1342.7
27.5°	1246.6	1252.6	1270.6	1294.6	1308.6
30°	1196.6	1204.6	1226.6	1256.6	1270.6
32.5°	1146.6	1156.6	1180.6	1214.6	1230.6
35°	1094.5	1106.5	1134.6	1170.6	1190.6
37.5°	1042.5	1054.5	1086.5	1126.6	1148.6
40°	988.5	1000.5	1036.5	1080.5	1104.5
42.5°	932.5	946.5	986.5	1036.5	1064.5
45°	876.4	890.4	934.5	990.5	1020.5
47.5°	818.4	834.4	882.4	944.5	974.5
50°	760.4	778.4	832.4	896.4	926.5
52.5°	702.3	722.4	780.4	846.4	878.4
55°	646.3	668.3	730.4	796.4	826.4
57.5°	586.3	612.3	678.3	742.4	776.4
60°	530.3	558.3	626.3	690.3	726.4
62.5°	474.2	504.3	576.3	640.3	674.3
65°	420.2	450.2	522.3	588.3	622.3
67.5°	366.2	400.2	470.2	536.3	570.3
70°	314.2	350.2	418.2	482.2	516.3
72.5°	264.1	300.1	368.2	428.2	448.2
75°	214.1	250.1	314.2	350.2	362.2
77.5°	168.1	202.1	258.1	280.1	296.1
80°	126.1	156.1	196.1	210.1	212.1
82.5°	86.0	112.1	136.1	138.1	136.1
85°	52.0	66.0	74.0	70.0	66.0
87.5°	24.0	26.0	24.0	16.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)