

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: P259320

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259320
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-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: 4606.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

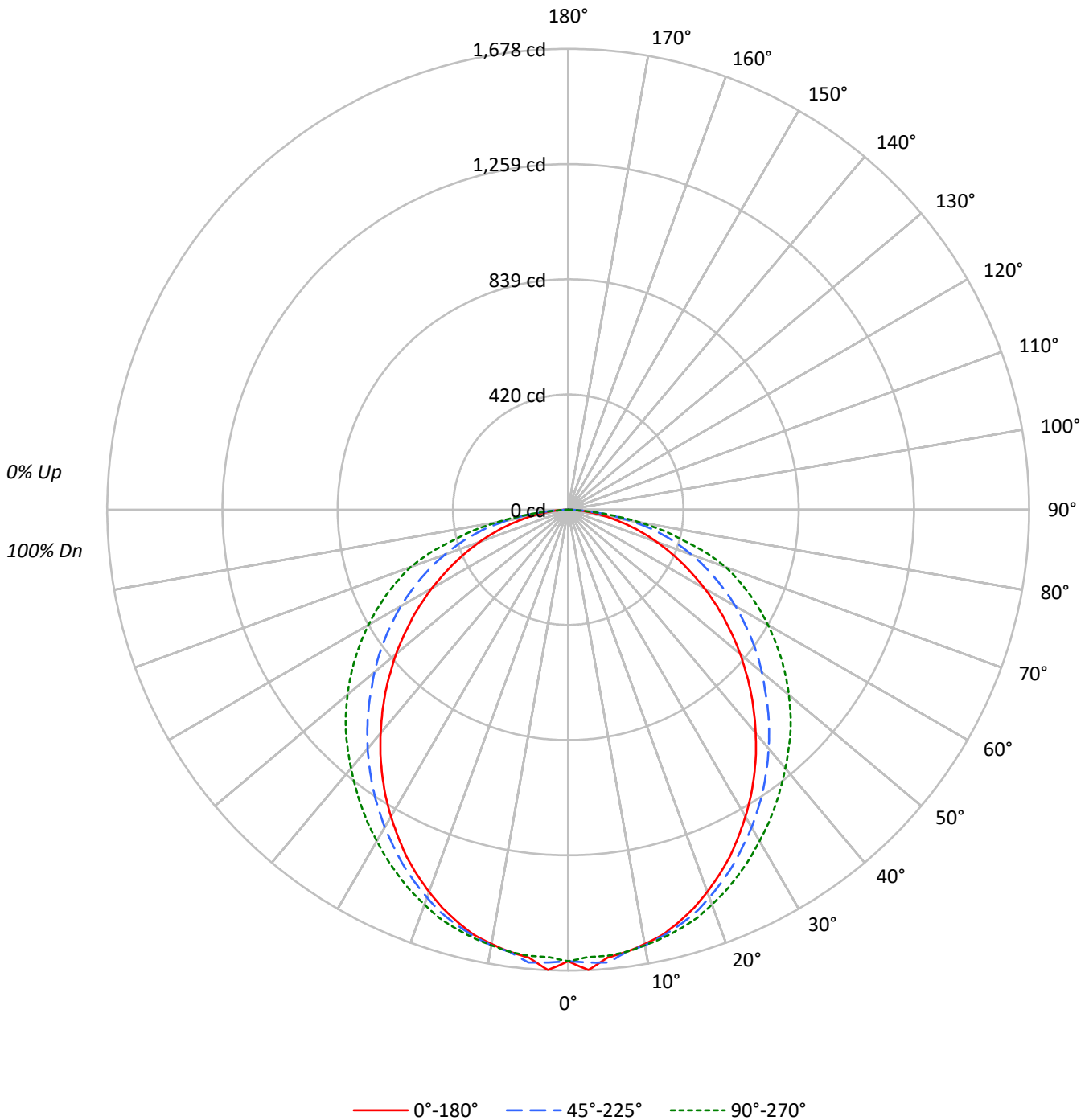
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4424	4424	4424
5°	4423	4471	4405
10°	4388	4400	4400
15°	4330	4362	4399
20°	4240	4304	4381
25°	4137	4230	4356
30°	4009	4148	4329
35°	3878	4069	4319
40°	3730	3989	4320
45°	3580	3913	4356
50°	3422	3854	4388
55°	3257	3815	4445
60°	3086	3785	4520
65°	2895	3765	4635
70°	2696	3754	4793
75°	2445	3749	4541
80°	2117	3471	4026
85°	1797	2628	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.4
10°-20°	441.7	9.6
20°-30°	657.0	14.3
30°-40°	777.1	16.9
40°-50°	798.7	17.3
50°-60°	729.8	15.8
60°-70°	583.8	12.7
70°-80°	366.4	8.0
80°-90°	95.4	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°	1254.7	27.2
0°-40°	2031.8	44.1
0°-60°	3560.3	77.3
0°-90°	4606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1637	1637	1655	1644	1631	156
15°	1554	1557	1566	1575	1579	438
25°	1393	1402	1424	1449	1467	641
35°	1180	1196	1239	1286	1315	738
45°	941	965	1028	1104	1145	725
55°	694	728	813	903	947	621
65°	455	495	591	681	728	451
75°	235	280	361	414	437	250
85°	58	74	85	83	83	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.0	1644.0	1644.0	1644.0	1644.0
2.5°	1677.6	1670.9	1650.8	1637.3	1630.6
5°	1637.3	1637.3	1655.2	1644.0	1630.6
7.5°	1623.9	1623.9	1623.9	1657.5	1623.9
10°	1606.0	1608.2	1610.4	1623.9	1610.4
12.5°	1585.8	1585.8	1590.3	1594.8	1597.0
15°	1554.4	1556.7	1565.6	1574.6	1579.1
17.5°	1520.8	1527.6	1538.8	1550.0	1558.9
20°	1480.5	1489.5	1502.9	1520.8	1529.8
22.5°	1438.0	1446.9	1464.9	1485.0	1500.7
25°	1393.2	1402.1	1424.5	1449.2	1467.1
27.5°	1341.7	1352.9	1379.7	1413.3	1431.3
30°	1290.1	1303.6	1334.9	1373.0	1393.2
32.5°	1236.4	1252.1	1287.9	1330.5	1355.1
35°	1180.4	1196.1	1238.6	1285.7	1314.8
37.5°	1122.2	1140.1	1187.1	1240.9	1272.2
40°	1061.7	1081.8	1135.6	1193.8	1229.7
42.5°	1001.2	1023.6	1081.8	1151.3	1187.1
45°	940.7	965.4	1028.1	1104.2	1144.6
47.5°	878.0	907.1	972.1	1057.2	1097.5
50°	817.5	846.7	920.6	1007.9	1048.2
52.5°	754.8	788.4	866.8	956.4	999.0
55°	694.3	727.9	813.1	902.7	947.4
57.5°	633.9	667.5	757.1	848.9	893.7
60°	573.4	609.2	703.3	792.9	839.9
62.5°	512.9	551.0	647.3	739.1	783.9
65°	454.7	495.0	591.3	680.9	727.9
67.5°	398.7	441.2	535.3	622.7	669.7
70°	342.7	385.3	477.1	562.2	609.2
72.5°	288.9	331.5	421.1	497.2	533.1
75°	235.2	280.0	360.6	414.4	436.8
77.5°	183.7	228.5	297.9	333.7	358.4
80°	136.6	174.7	224.0	250.9	259.8
82.5°	94.1	125.4	156.8	163.5	168.0
85°	58.2	73.9	85.1	82.9	82.9
87.5°	26.9	29.1	24.6	17.9	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)