

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: P259483

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259483
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-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4401.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

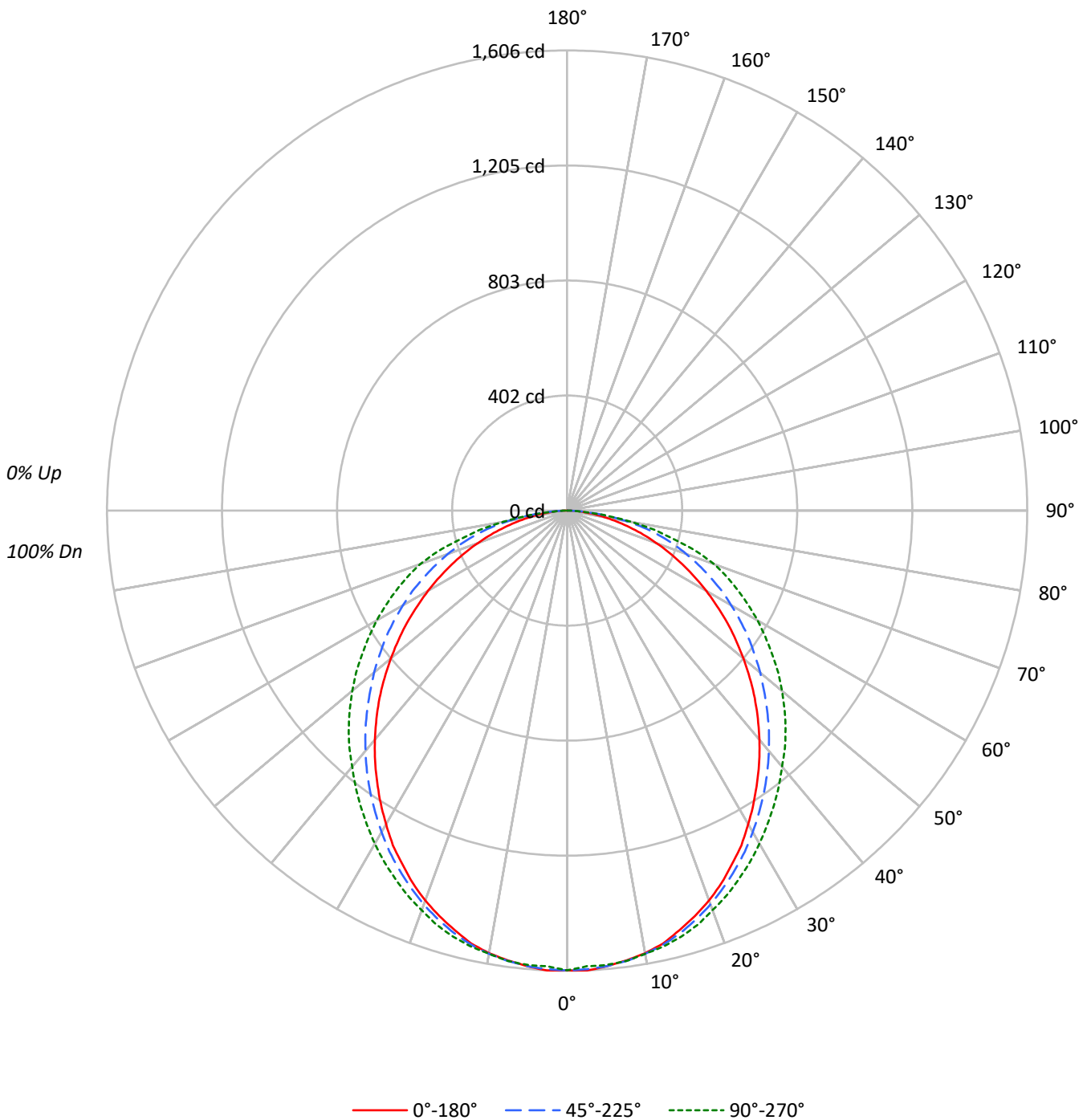
Input Watts (W): 34.782
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4317	4317	4317
5°	4311	4311	4300
10°	4286	4292	4292
15°	4222	4252	4287
20°	4147	4189	4249
25°	4042	4111	4211
30°	3928	4026	4171
35°	3799	3937	4132
40°	3668	3847	4099
45°	3524	3757	4103
50°	3363	3682	4097
55°	3203	3620	4096
60°	3015	3561	4130
65°	2826	3513	4186
70°	2611	3476	4291
75°	2352	3451	3978
80°	2064	3211	3473
85°	1698	2414	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	3.4
10°-20°	430.4	9.8
20°-30°	639.3	14.5
30°-40°	752.5	17.1
40°-50°	767.1	17.4
50°-60°	691.9	15.7
60°-70°	545.0	12.4
70°-80°	336.2	7.6
80°-90°	87.3	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°	1221.2	27.7
0°-40°	1973.6	44.8
0°-60°	3432.6	78.0
0°-90°	4401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1596	1598	1596	1594	1592	151
15°	1516	1522	1526	1535	1539	427
25°	1361	1370	1385	1408	1418	627
35°	1156	1169	1199	1237	1258	723
45°	926	941	987	1046	1078	714
55°	683	706	772	841	873	609
65°	444	476	552	622	657	440
75°	226	264	332	370	383	241
85°	55	70	78	74	70	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.4	1604.4	1604.4	1604.4	1604.4
2.5°	1606.5	1606.5	1602.3	1598.1	1591.7
5°	1596.0	1598.1	1596.0	1593.9	1591.7
7.5°	1583.3	1585.4	1585.4	1585.4	1585.4
10°	1568.5	1570.6	1570.6	1570.6	1570.6
12.5°	1547.4	1549.5	1551.6	1553.7	1557.9
15°	1515.6	1522.0	1526.2	1534.7	1538.9
17.5°	1483.9	1490.3	1496.6	1507.2	1515.6
20°	1448.0	1452.2	1462.8	1475.5	1483.9
22.5°	1407.8	1414.2	1424.7	1441.7	1454.3
25°	1361.3	1369.8	1384.6	1407.8	1418.4
27.5°	1316.9	1323.3	1342.3	1367.7	1382.5
30°	1264.1	1272.5	1295.8	1327.5	1342.3
32.5°	1211.2	1221.8	1247.2	1283.1	1300.0
35°	1156.3	1169.0	1198.6	1236.6	1257.8
37.5°	1101.3	1114.0	1147.8	1190.1	1213.4
40°	1044.3	1056.9	1095.0	1141.5	1166.9
42.5°	985.1	999.9	1042.1	1095.0	1124.6
45°	925.9	940.7	987.2	1046.4	1078.1
47.5°	864.6	881.5	932.2	997.7	1029.5
50°	803.3	822.3	879.4	947.0	978.7
52.5°	742.0	763.1	824.4	894.2	928.0
55°	682.8	706.0	771.6	841.3	873.0
57.5°	619.4	646.8	716.6	784.2	820.2
60°	560.2	589.8	661.6	729.3	767.3
62.5°	501.0	532.7	608.8	676.4	712.4
65°	443.9	475.6	551.7	621.5	657.4
67.5°	386.8	422.8	496.8	566.5	602.5
70°	331.9	369.9	441.8	509.4	545.4
72.5°	279.0	317.1	389.0	452.4	473.5
75°	226.2	264.2	331.9	369.9	382.6
77.5°	177.6	213.5	272.7	295.9	312.9
80°	133.2	164.9	207.2	222.0	224.1
82.5°	90.9	118.4	143.7	145.9	143.7
85°	55.0	69.8	78.2	74.0	69.8
87.5°	25.4	27.5	25.4	16.9	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)