

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: P259488

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259488
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4698.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

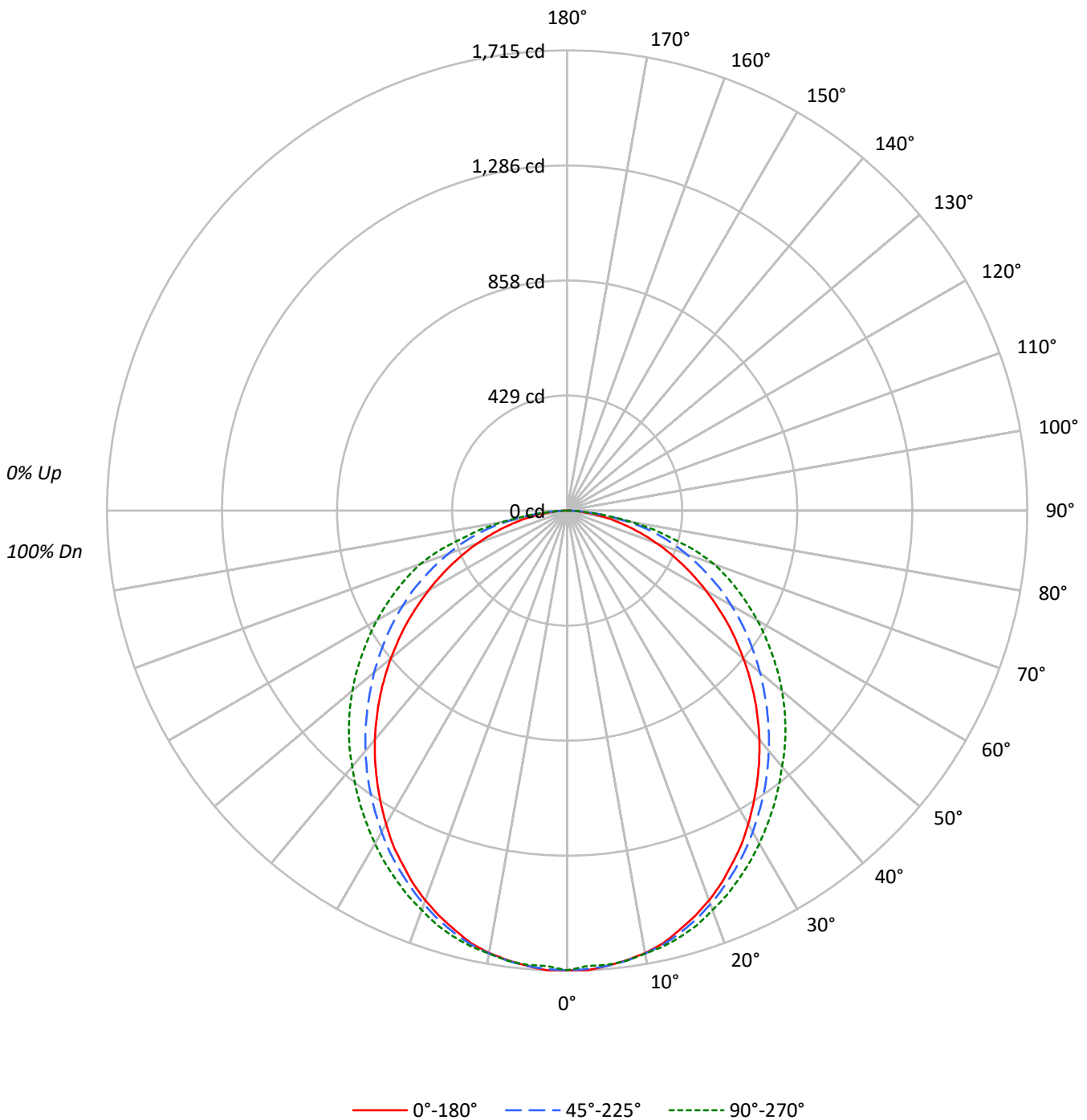
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4609	4609	4609
5°	4602	4602	4590
10°	4575	4581	4581
15°	4507	4539	4576
20°	4426	4472	4536
25°	4315	4388	4496
30°	4193	4298	4452
35°	4055	4203	4411
40°	3916	4106	4376
45°	3761	4010	4380
50°	3590	3930	4374
55°	3420	3864	4372
60°	3218	3801	4408
65°	3018	3750	4469
70°	2788	3710	4581
75°	2510	3684	4246
80°	2204	3426	3707
85°	1812	2578	2300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.4
10°-20°	459.4	9.8
20°-30°	682.4	14.5
30°-40°	803.2	17.1
40°-50°	818.9	17.4
50°-60°	738.6	15.7
60°-70°	581.7	12.4
70°-80°	358.8	7.6
80°-90°	93.2	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°	1303.6	27.7
0°-40°	2106.8	44.8
0°-60°	3664.3	78.0
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1704	1706	1704	1701	1699	162
15°	1618	1625	1629	1638	1643	456
25°	1453	1462	1478	1503	1514	670
35°	1234	1248	1279	1320	1343	772
45°	988	1004	1054	1117	1151	762
55°	729	754	824	898	932	650
65°	474	508	589	663	702	469
75°	241	282	354	395	408	258
85°	59	74	84	79	74	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712.7	1712.7	1712.7	1712.7	1712.7
2.5°	1715.0	1715.0	1710.4	1705.9	1699.2
5°	1703.7	1705.9	1703.7	1701.4	1699.2
7.5°	1690.1	1692.4	1692.4	1692.4	1692.4
10°	1674.3	1676.6	1676.6	1676.6	1676.6
12.5°	1651.8	1654.0	1656.3	1658.5	1663.1
15°	1617.9	1624.7	1629.2	1638.2	1642.7
17.5°	1584.1	1590.8	1597.6	1608.9	1617.9
20°	1545.7	1550.2	1561.5	1575.1	1584.1
22.5°	1502.8	1509.6	1520.9	1538.9	1552.5
25°	1453.2	1462.2	1478.0	1502.8	1514.1
27.5°	1405.8	1412.6	1432.9	1460.0	1475.8
30°	1349.4	1358.4	1383.2	1417.1	1432.9
32.5°	1293.0	1304.3	1331.3	1369.7	1387.8
35°	1234.3	1247.9	1279.4	1320.1	1342.6
37.5°	1175.6	1189.2	1225.3	1270.4	1295.2
40°	1114.7	1128.3	1168.9	1218.5	1245.6
42.5°	1051.5	1067.3	1112.5	1168.9	1200.5
45°	988.4	1004.2	1053.8	1117.0	1150.8
47.5°	922.9	941.0	995.1	1065.1	1098.9
50°	857.5	877.8	938.7	1010.9	1044.8
52.5°	792.0	814.6	880.0	954.5	990.6
55°	728.9	753.7	823.6	898.1	931.9
57.5°	661.2	690.5	765.0	837.2	875.5
60°	598.0	629.6	706.3	778.5	819.1
62.5°	534.8	568.6	649.9	722.1	760.4
65°	473.9	507.7	589.0	663.4	701.8
67.5°	412.9	451.3	530.3	604.7	643.1
70°	354.3	394.9	471.6	543.8	582.2
72.5°	297.9	338.5	415.2	482.9	505.5
75°	241.4	282.1	354.3	394.9	408.4
77.5°	189.5	227.9	291.1	315.9	334.0
80°	142.2	176.0	221.1	236.9	239.2
82.5°	97.0	126.4	153.4	155.7	153.4
85°	58.7	74.5	83.5	79.0	74.5
87.5°	27.1	29.3	27.1	18.1	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)