

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: P263407

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3396.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

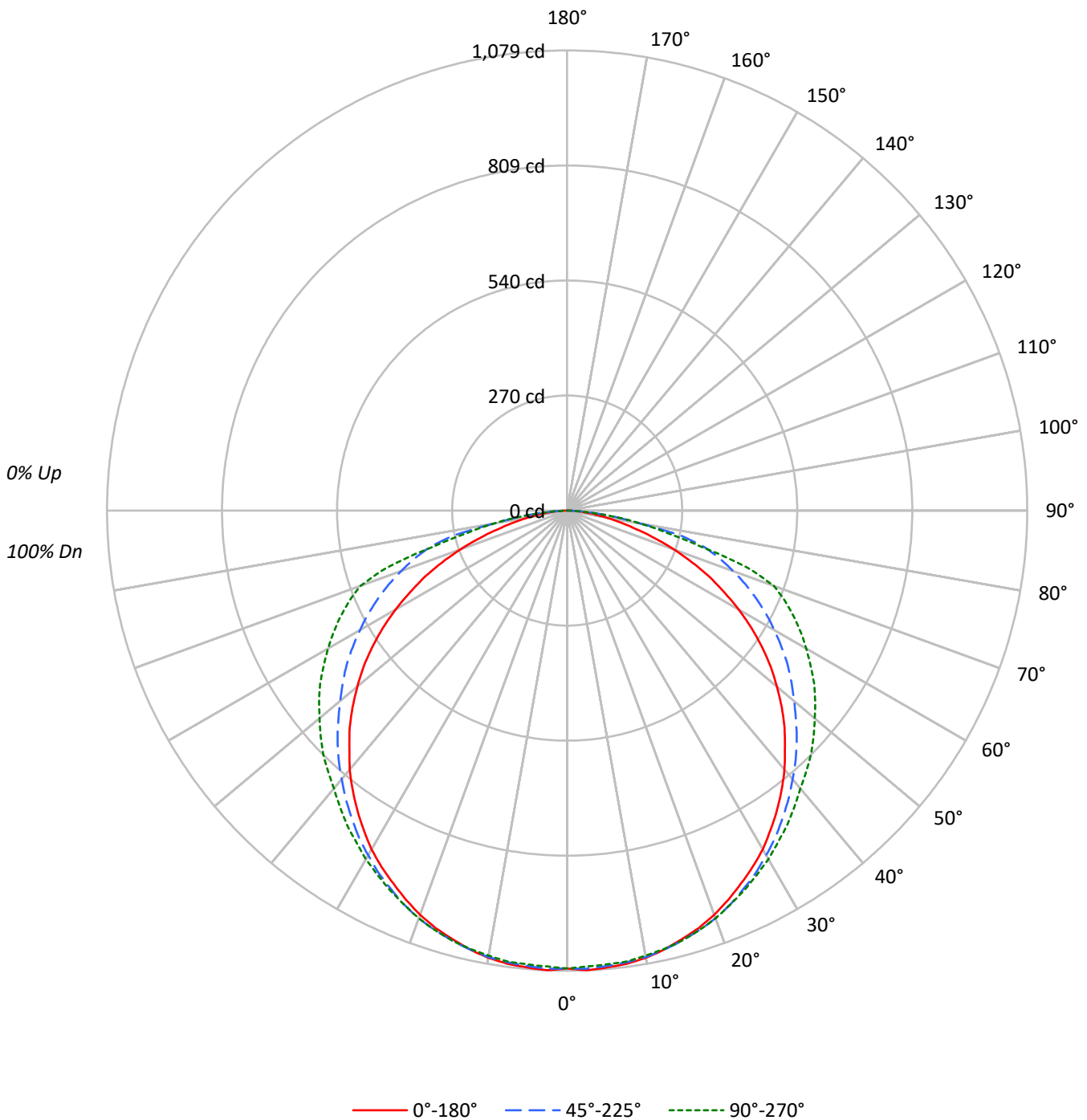
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1444	1444	1444
5°	1452	1448	1443
10°	1455	1452	1448
15°	1449	1454	1454
20°	1444	1457	1457
25°	1432	1453	1458
30°	1425	1450	1466
35°	1409	1446	1478
40°	1393	1445	1494
45°	1372	1449	1539
50°	1344	1454	1586
55°	1308	1481	1658
60°	1251	1510	1742
65°	1173	1558	1865
70°	1049	1629	2029
75°	866	1742	1678
80°	707	1346	1359
85°	568	894	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.0
10°-20°	294.2	8.7
20°-30°	449.7	13.2
30°-40°	549.9	16.2
40°-50°	588.4	17.3
50°-60°	563.5	16.6
60°-70°	476.7	14.0
70°-80°	302.2	8.9
80°-90°	69.5	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°	845.8	24.9
0°-40°	1395.8	41.1
0°-60°	2547.7	75.0
0°-90°	3396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1075	1070	1072	1070	1068	102
15°	1040	1038	1044	1044	1044	294
25°	965	965	979	982	982	445
35°	858	863	881	893	900	537
45°	721	733	761	793	809	555
55°	558	575	632	684	707	498
65°	368	404	489	556	586	363
75°	167	235	335	333	323	181
85°	37	56	58	53	54	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1078.8	1073.5	1075.3	1073.5	1070.0
5°	1075.3	1070.0	1071.8	1070.0	1068.3
7.5°	1071.8	1066.5	1068.3	1066.5	1066.5
10°	1064.8	1059.5	1063.0	1061.3	1059.5
12.5°	1054.2	1050.7	1054.2	1052.5	1052.5
15°	1040.2	1038.5	1043.7	1043.7	1043.7
17.5°	1026.2	1024.4	1031.4	1031.4	1031.4
20°	1008.6	1006.9	1017.4	1017.4	1017.4
22.5°	987.6	985.8	999.9	999.9	999.9
25°	964.8	964.8	978.8	982.3	982.3
27.5°	942.0	942.0	957.8	963.0	963.0
30°	917.4	917.4	933.2	940.2	943.7
32.5°	887.6	891.1	908.6	917.4	920.9
35°	857.8	863.0	880.6	892.9	899.9
37.5°	826.2	831.5	852.5	866.5	875.3
40°	792.9	799.9	822.7	840.2	850.8
42.5°	756.0	766.6	792.9	815.7	829.7
45°	721.0	733.2	761.3	792.9	808.7
47.5°	682.4	696.4	728.0	768.3	784.1
50°	642.0	656.1	694.6	740.3	757.8
52.5°	601.7	617.5	663.1	712.2	733.2
55°	557.8	575.4	631.5	684.1	706.9
57.5°	512.2	533.3	596.4	652.5	677.1
60°	464.8	491.2	561.3	621.0	647.3
62.5°	415.7	447.3	526.2	589.4	617.5
65°	368.4	403.5	489.4	556.1	585.9
67.5°	317.5	361.4	452.6	524.5	552.6
70°	266.6	317.5	414.0	487.7	515.7
72.5°	215.8	277.2	375.4	442.0	442.0
75°	166.6	235.1	335.0	333.3	322.8
77.5°	126.3	196.5	275.4	235.1	236.8
80°	91.2	157.9	173.7	173.7	175.4
82.5°	61.4	121.0	112.3	110.5	114.0
85°	36.8	56.1	57.9	52.6	54.4
87.5°	17.5	19.3	15.8	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)