

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: P260351

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1576.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

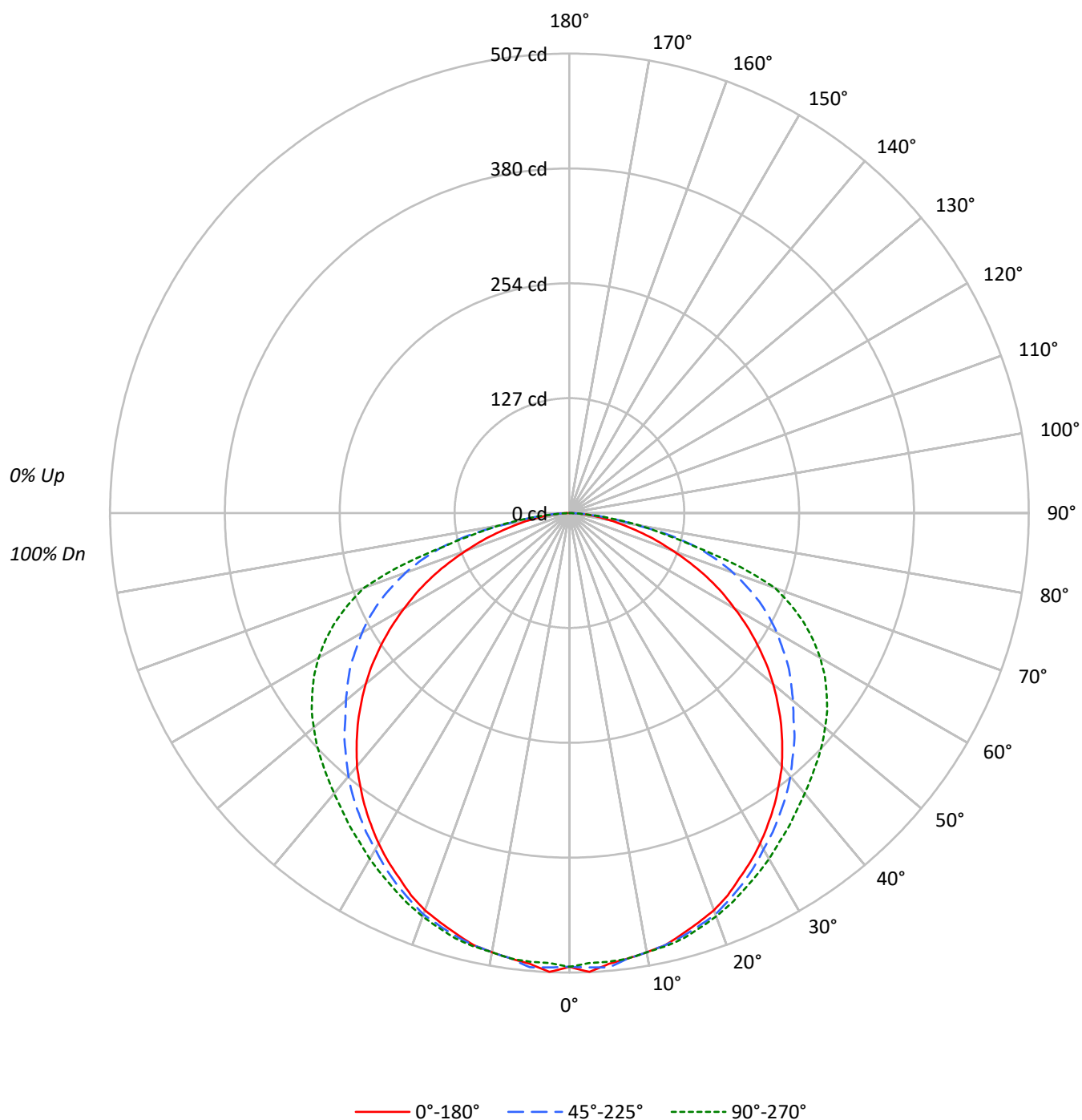
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1347	1347	1347
5°	1349	1359	1342
10°	1344	1344	1344
15°	1340	1347	1354
20°	1335	1349	1357
25°	1319	1341	1359
30°	1308	1331	1369
35°	1295	1331	1387
40°	1281	1333	1419
45°	1258	1337	1472
50°	1230	1348	1542
55°	1188	1384	1625
60°	1133	1423	1719
65°	1068	1473	1816
70°	954	1512	1897
75°	828	1514	1501
80°	702	1119	1213
85°	605	756	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.0
10°-20°	136.5	8.7
20°-30°	208.0	13.2
30°-40°	254.5	16.1
40°-50°	273.8	17.4
50°-60°	265.3	16.8
60°-70°	224.7	14.3
70°-80°	135.8	8.6
80°-90°	29.9	1.9
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°	392.0	24.9
0°-40°	646.5	41.0
0°-60°	1185.6	75.2
0°-90°	1576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	499	499	503	501	497	47
15°	481	482	483	485	486	136
25°	444	447	452	455	458	205
35°	394	396	405	416	422	246
45°	330	337	351	373	387	255
55°	253	264	295	329	346	226
65°	168	186	231	268	285	165
75°	80	108	146	148	144	86
85°	20	23	24	23	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.6	500.6	500.6	500.6	500.6
2.5°	506.7	505.5	501.8	499.4	496.9
5°	499.4	499.4	503.0	500.6	496.9
7.5°	495.7	495.7	495.7	501.8	495.7
10°	492.0	493.2	492.0	496.9	492.0
12.5°	488.3	488.3	488.3	489.6	489.6
15°	481.0	482.2	483.4	484.7	485.9
17.5°	473.7	474.9	477.3	478.5	479.8
20°	466.3	467.5	471.2	471.2	473.7
22.5°	456.5	456.5	461.4	462.6	466.3
25°	444.3	446.7	451.6	455.3	457.7
27.5°	433.3	435.7	440.6	445.5	449.2
30°	421.0	423.5	428.4	435.7	440.6
32.5°	407.6	410.0	417.4	425.9	430.8
35°	394.1	396.5	405.1	416.1	422.2
37.5°	379.4	383.1	392.9	405.1	412.5
40°	364.7	368.4	379.4	392.9	403.9
42.5°	347.6	352.5	364.7	383.1	395.3
45°	330.5	336.6	351.3	373.3	386.8
47.5°	312.1	318.2	335.4	363.5	378.2
50°	293.7	301.1	321.9	352.5	368.4
52.5°	274.2	281.5	308.4	341.5	358.6
55°	253.3	264.4	295.0	329.2	346.4
57.5°	232.5	244.8	279.1	315.8	334.1
60°	210.5	225.2	264.4	301.1	319.4
62.5°	189.7	205.6	248.5	285.2	303.5
65°	167.7	186.0	231.3	268.0	285.2
67.5°	144.4	167.7	211.7	247.2	264.4
70°	121.2	148.1	192.2	225.2	241.1
72.5°	100.4	128.5	170.1	198.3	198.3
75°	79.6	107.7	145.6	148.1	144.4
77.5°	61.2	88.1	113.8	104.0	106.5
80°	45.3	67.3	72.2	75.9	78.3
82.5°	30.6	45.3	46.5	49.0	49.0
85°	19.6	23.3	24.5	23.3	22.0
87.5°	8.6	9.8	7.3	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)