

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: P260353

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260353
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 77.5 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

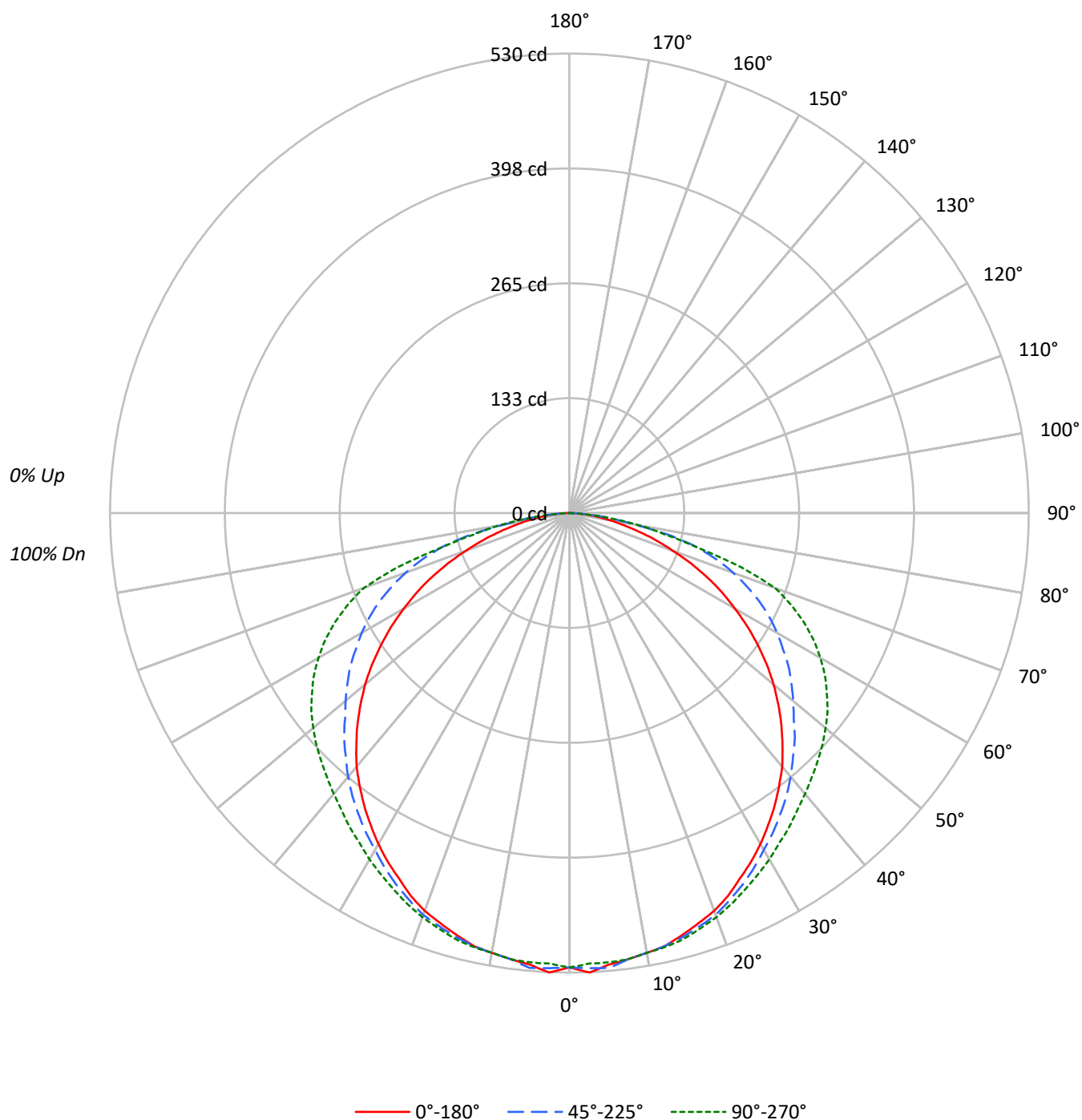
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1410	1410	1410
5°	1412	1422	1405
10°	1408	1408	1408
15°	1403	1410	1417
20°	1398	1413	1420
25°	1381	1404	1423
30°	1370	1394	1433
35°	1355	1393	1452
40°	1342	1395	1486
45°	1317	1400	1541
50°	1287	1411	1615
55°	1244	1449	1701
60°	1186	1490	1800
65°	1117	1542	1901
70°	998	1583	1986
75°	866	1586	1572
80°	735	1172	1271
85°	633	790	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	3.0
10°-20°	142.9	8.7
20°-30°	217.8	13.2
30°-40°	266.5	16.1
40°-50°	286.7	17.4
50°-60°	277.7	16.8
60°-70°	235.3	14.3
70°-80°	142.2	8.6
80°-90°	31.2	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°	410.4	24.9
0°-40°	676.9	41.0
0°-60°	1241.3	75.2
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	523	523	527	524	520	50
15°	504	505	506	507	509	142
25°	465	468	473	477	479	215
35°	413	415	424	436	442	258
45°	346	352	368	391	405	267
55°	265	277	309	345	363	237
65°	176	195	242	281	299	173
75°	83	113	152	155	151	90
85°	20	24	26	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.1	524.1	524.1	524.1	524.1
2.5°	530.5	529.2	525.4	522.8	520.2
5°	522.8	522.8	526.6	524.1	520.2
7.5°	519.0	519.0	519.0	525.4	519.0
10°	515.1	516.4	515.1	520.2	515.1
12.5°	511.3	511.3	511.3	512.6	512.6
15°	503.6	504.9	506.1	507.4	508.7
17.5°	495.9	497.2	499.7	501.0	502.3
20°	488.2	489.5	493.3	493.3	495.9
22.5°	478.0	478.0	483.1	484.4	488.2
25°	465.1	467.7	472.8	476.7	479.2
27.5°	453.6	456.2	461.3	466.4	470.3
30°	440.8	443.4	448.5	456.2	461.3
32.5°	426.7	429.3	437.0	445.9	451.0
35°	412.6	415.2	424.1	435.7	442.1
37.5°	397.2	401.1	411.3	424.1	431.8
40°	381.9	385.7	397.2	411.3	422.9
42.5°	363.9	369.0	381.9	401.1	413.9
45°	346.0	352.4	367.8	390.8	404.9
47.5°	326.8	333.2	351.1	380.6	395.9
50°	307.5	315.2	337.0	369.0	385.7
52.5°	287.0	294.7	322.9	357.5	375.4
55°	265.2	276.8	308.8	344.7	362.6
57.5°	243.5	256.3	292.2	330.6	349.8
60°	220.4	235.8	276.8	315.2	334.4
62.5°	198.6	215.3	260.1	298.6	317.8
65°	175.5	194.8	242.2	280.6	298.6
67.5°	151.2	175.5	221.7	258.8	276.8
70°	126.9	155.0	201.2	235.8	252.4
72.5°	105.1	134.5	178.1	207.6	207.6
75°	83.3	112.8	152.5	155.0	151.2
77.5°	64.1	92.3	119.2	108.9	111.5
80°	47.4	70.5	75.6	79.4	82.0
82.5°	32.0	47.4	48.7	51.3	51.3
85°	20.5	24.3	25.6	24.3	23.1
87.5°	9.0	10.3	7.7	5.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)