

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: P260349

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260349
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1454.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

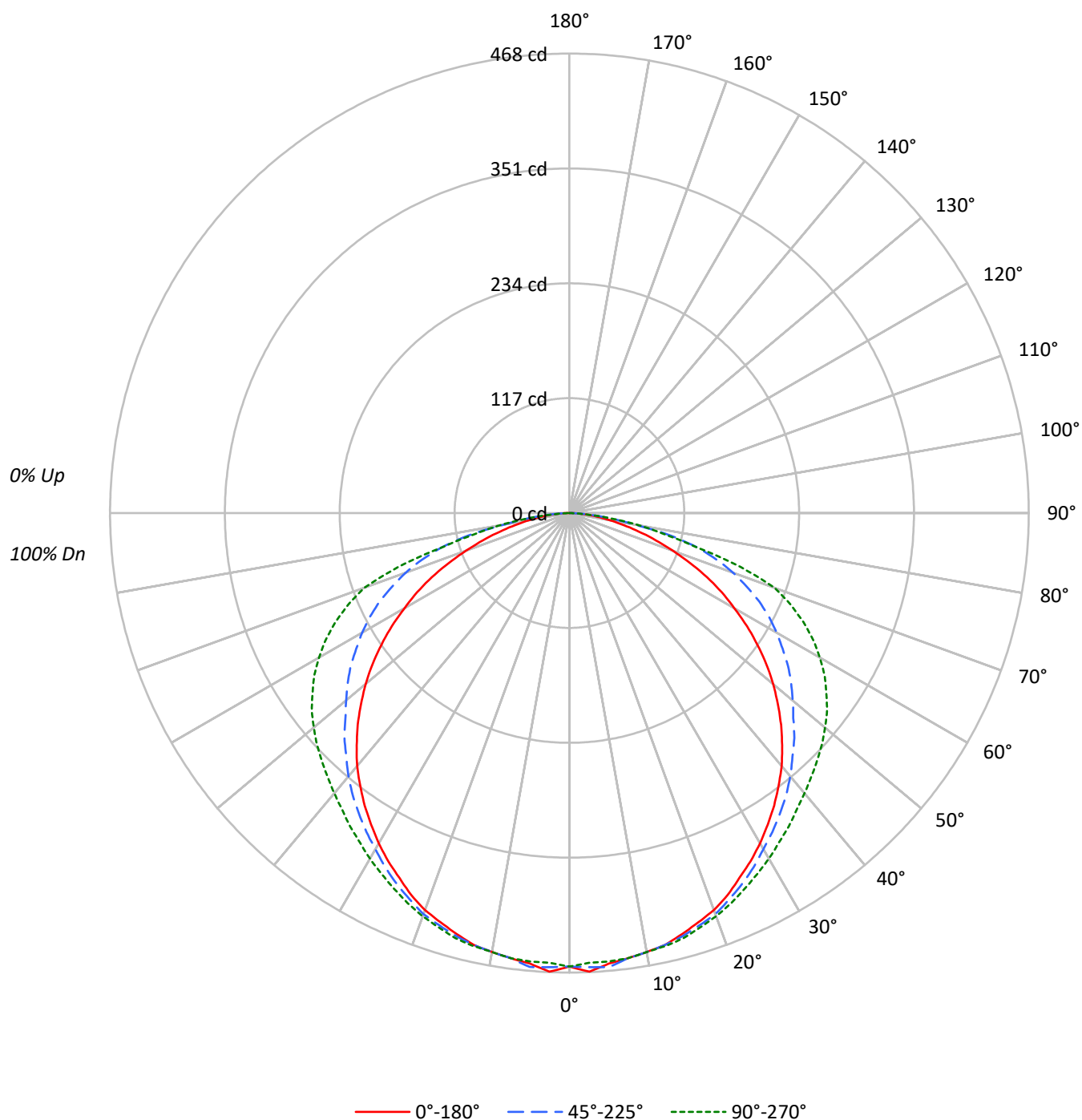
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1243	1243	1243
5°	1244	1254	1238
10°	1240	1240	1240
15°	1236	1243	1249
20°	1232	1245	1251
25°	1217	1237	1254
30°	1207	1228	1263
35°	1194	1228	1280
40°	1182	1229	1309
45°	1160	1233	1358
50°	1135	1243	1423
55°	1096	1277	1499
60°	1045	1313	1586
65°	985	1359	1675
70°	880	1395	1750
75°	763	1397	1385
80°	648	1032	1120
85°	559	698	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	3.0
10°-20°	125.9	8.7
20°-30°	191.9	13.2
30°-40°	234.8	16.1
40°-50°	252.6	17.4
50°-60°	244.7	16.8
60°-70°	207.3	14.3
70°-80°	125.3	8.6
80°-90°	27.5	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°	361.7	24.9
0°-40°	596.5	41.0
0°-60°	1093.9	75.2
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	461	461	464	462	458	44
15°	444	445	446	447	448	125
25°	410	412	417	420	422	189
35°	364	366	374	384	390	227
45°	305	310	324	344	357	235
55°	234	244	272	304	320	209
65°	155	172	213	247	263	152
75°	73	99	134	137	133	79
85°	18	22	23	22	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.8	461.8	461.8	461.8	461.8
2.5°	467.5	466.3	463.0	460.7	458.4
5°	460.7	460.7	464.1	461.8	458.4
7.5°	457.3	457.3	457.3	463.0	457.3
10°	453.9	455.1	453.9	458.4	453.9
12.5°	450.5	450.5	450.5	451.7	451.7
15°	443.8	444.9	446.0	447.2	448.3
17.5°	437.0	438.1	440.4	441.5	442.6
20°	430.2	431.3	434.7	434.7	437.0
22.5°	421.2	421.2	425.7	426.8	430.2
25°	409.9	412.1	416.7	420.1	422.3
27.5°	399.7	402.0	406.5	411.0	414.4
30°	388.4	390.7	395.2	402.0	406.5
32.5°	376.0	378.3	385.0	393.0	397.5
35°	363.6	365.9	373.8	383.9	389.6
37.5°	350.0	353.4	362.5	373.8	380.5
40°	336.5	339.9	350.0	362.5	372.6
42.5°	320.7	325.2	336.5	353.4	364.7
45°	304.9	310.5	324.1	344.4	356.8
47.5°	287.9	293.6	309.4	335.4	348.9
50°	271.0	277.8	297.0	325.2	339.9
52.5°	252.9	259.7	284.6	315.0	330.8
55°	233.7	243.9	272.1	303.7	319.6
57.5°	214.5	225.8	257.5	291.3	308.3
60°	194.2	207.8	243.9	277.8	294.7
62.5°	175.0	189.7	229.2	263.1	280.0
65°	154.7	171.6	213.4	247.3	263.1
67.5°	133.2	154.7	195.3	228.1	243.9
70°	111.8	136.6	177.3	207.8	222.4
72.5°	92.6	118.6	157.0	182.9	182.9
75°	73.4	99.4	134.4	136.6	133.2
77.5°	56.5	81.3	105.0	96.0	98.2
80°	41.8	62.1	66.6	70.0	72.3
82.5°	28.2	41.8	42.9	45.2	45.2
85°	18.1	21.5	22.6	21.5	20.3
87.5°	7.9	9.0	6.8	4.5	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)