

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: P260334

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260334
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-LD5-20-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1225.0 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

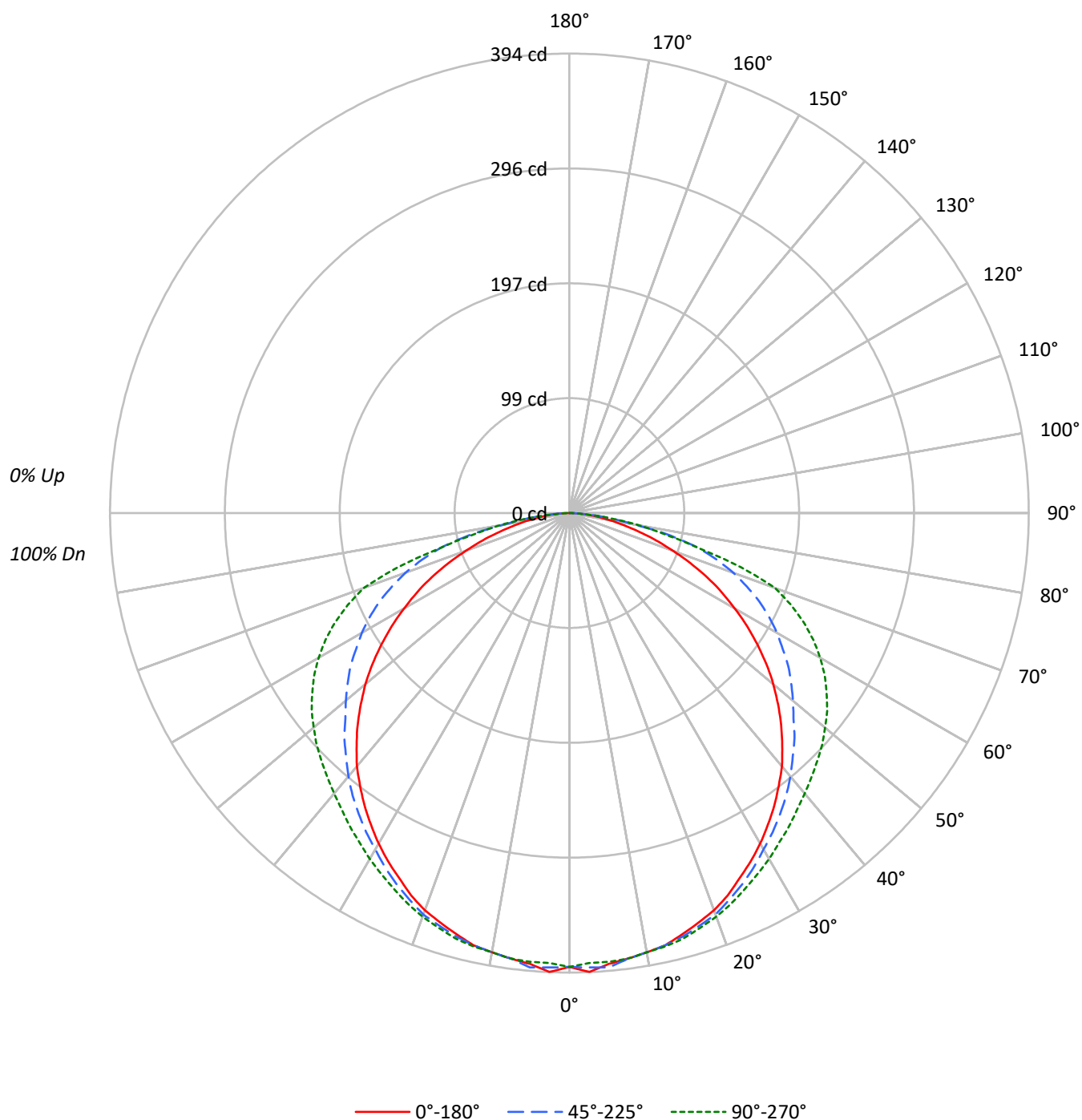
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1047	1047	1047
5°	1048	1056	1043
10°	1045	1045	1045
15°	1042	1047	1052
20°	1038	1049	1054
25°	1025	1042	1056
30°	1017	1035	1064
35°	1006	1034	1078
40°	996	1036	1103
45°	978	1039	1144
50°	956	1047	1199
55°	924	1076	1263
60°	880	1106	1336
65°	830	1145	1412
70°	741	1175	1474
75°	643	1177	1168
80°	545	869	944
85°	469	587	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	3.0
10°-20°	106.1	8.7
20°-30°	161.7	13.2
30°-40°	197.8	16.1
40°-50°	212.9	17.4
50°-60°	206.2	16.8
60°-70°	174.7	14.3
70°-80°	105.6	8.6
80°-90°	23.2	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°	304.7	24.9
0°-40°	502.5	41.0
0°-60°	921.6	75.2
0°-90°	1225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	388	388	391	389	386	37
15°	374	375	376	377	378	106
25°	345	347	351	354	356	159
35°	306	308	315	324	328	192
45°	257	262	273	290	301	198
55°	197	206	229	256	269	176
65°	130	145	180	208	222	128
75°	62	84	113	115	112	66
85°	15	18	19	18	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	389.1	389.1	389.1	389.1	389.1
2.5°	393.8	392.9	390.0	388.1	386.2
5°	388.1	388.1	391.0	389.1	386.2
7.5°	385.3	385.3	385.3	390.0	385.3
10°	382.4	383.4	382.4	386.2	382.4
12.5°	379.6	379.6	379.6	380.5	380.5
15°	373.9	374.8	375.8	376.7	377.7
17.5°	368.2	369.1	371.0	372.0	372.9
20°	362.5	363.4	366.3	366.3	368.2
22.5°	354.8	354.8	358.7	359.6	362.5
25°	345.3	347.2	351.0	353.9	355.8
27.5°	336.8	338.7	342.5	346.3	349.1
30°	327.3	329.2	333.0	338.7	342.5
32.5°	316.8	318.7	324.4	331.1	334.9
35°	306.3	308.2	314.9	323.5	328.2
37.5°	294.9	297.8	305.4	314.9	320.6
40°	283.5	286.3	294.9	305.4	313.9
42.5°	270.2	274.0	283.5	297.8	307.3
45°	256.9	261.6	273.0	290.2	300.6
47.5°	242.6	247.3	260.7	282.5	294.0
50°	228.3	234.0	250.2	274.0	286.3
52.5°	213.1	218.8	239.7	265.4	278.7
55°	196.9	205.5	229.3	255.9	269.2
57.5°	180.8	190.3	216.9	245.4	259.7
60°	163.6	175.0	205.5	234.0	248.3
62.5°	147.5	159.8	193.1	221.7	235.9
65°	130.3	144.6	179.8	208.3	221.7
67.5°	112.3	130.3	164.6	192.2	205.5
70°	94.2	115.1	149.4	175.0	187.4
72.5°	78.0	99.9	132.2	154.1	154.1
75°	61.8	83.7	113.2	115.1	112.3
77.5°	47.6	68.5	88.5	80.9	82.8
80°	35.2	52.3	56.1	59.0	60.9
82.5°	23.8	35.2	36.2	38.1	38.1
85°	15.2	18.1	19.0	18.1	17.1
87.5°	6.7	7.6	5.7	3.8	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)