

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: P260338

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260338
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1283.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

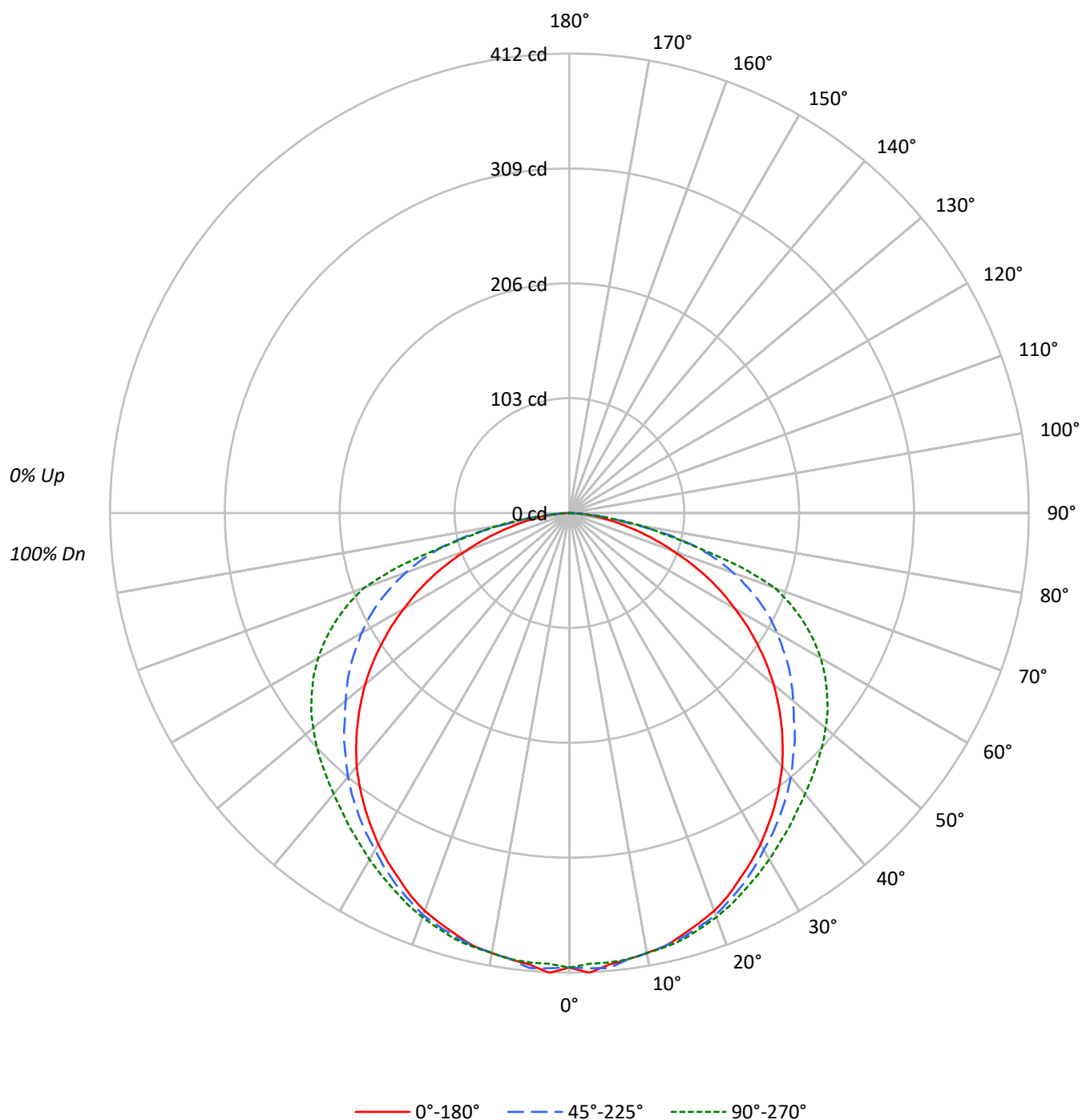
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260338

CATALOG NUMBER: 22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P260338

CATALOG NUMBER: 22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-6500K

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1097	1097	1097
5°	1098	1106	1093
10°	1094	1094	1094
15°	1091	1097	1102
20°	1087	1099	1104
25°	1074	1092	1106
30°	1065	1084	1115
35°	1054	1083	1129
40°	1043	1085	1155
45°	1024	1088	1198
50°	1001	1097	1256
55°	967	1126	1323
60°	922	1158	1400
65°	869	1199	1479
70°	776	1231	1544
75°	674	1233	1223
80°	572	911	989
85°	491	614	553



TEST NUMBER: P260338

CATALOG NUMBER: 22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	3.0
10°-20°	111.1	8.7
20°-30°	169.3	13.2
30°-40°	207.2	16.1
40°-50°	222.9	17.4
50°-60°	215.9	16.8
60°-70°	182.9	14.3
70°-80°	110.6	8.6
80°-90°	24.3	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°	319.1	24.9
0°-40°	526.3	41.0
0°-60°	965.2	75.2
0°-90°	1283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	406	406	410	408	404	39
15°	392	393	394	395	396	111
25°	362	364	368	371	373	167
35°	321	323	330	339	344	201
45°	269	274	286	304	315	207
55°	206	215	240	268	282	184
65°	136	151	188	218	232	134
75°	65	88	119	121	118	70
85°	16	19	20	19	18	18
90°	0	0	0	0	0	



TEST NUMBER: P260338

CATALOG NUMBER: 22CZ-LD5-20-SQP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	407.5	407.5	407.5	407.5	407.5
2.5°	412.5	411.5	408.5	406.5	404.5
5°	406.5	406.5	409.5	407.5	404.5
7.5°	403.5	403.5	403.5	408.5	403.5
10°	400.5	401.5	400.5	404.5	400.5
12.5°	397.6	397.6	397.6	398.5	398.5
15°	391.6	392.6	393.6	394.6	395.6
17.5°	385.6	386.6	388.6	389.6	390.6
20°	379.6	380.6	383.6	383.6	385.6
22.5°	371.6	371.6	375.6	376.6	379.6
25°	361.7	363.7	367.7	370.6	372.6
27.5°	352.7	354.7	358.7	362.7	365.7
30°	342.8	344.7	348.7	354.7	358.7
32.5°	331.8	333.8	339.8	346.7	350.7
35°	320.8	322.8	329.8	338.8	343.7
37.5°	308.9	311.9	319.8	329.8	335.8
40°	296.9	299.9	308.9	319.8	328.8
42.5°	283.0	287.0	296.9	311.9	321.8
45°	269.0	274.0	286.0	303.9	314.9
47.5°	254.1	259.1	273.0	295.9	307.9
50°	239.1	245.1	262.0	287.0	299.9
52.5°	223.2	229.2	251.1	278.0	291.9
55°	206.2	215.2	240.1	268.0	282.0
57.5°	189.3	199.3	227.2	257.1	272.0
60°	171.4	183.3	215.2	245.1	260.1
62.5°	154.4	167.4	202.3	232.2	247.1
65°	136.5	151.4	188.3	218.2	232.2
67.5°	117.6	136.5	172.4	201.3	215.2
70°	98.6	120.6	156.4	183.3	196.3
72.5°	81.7	104.6	138.5	161.4	161.4
75°	64.8	87.7	118.6	120.6	117.6
77.5°	49.8	71.7	92.7	84.7	86.7
80°	36.9	54.8	58.8	61.8	63.8
82.5°	24.9	36.9	37.9	39.9	39.9
85°	15.9	18.9	19.9	18.9	17.9
87.5°	7.0	8.0	6.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)