

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: P259367

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

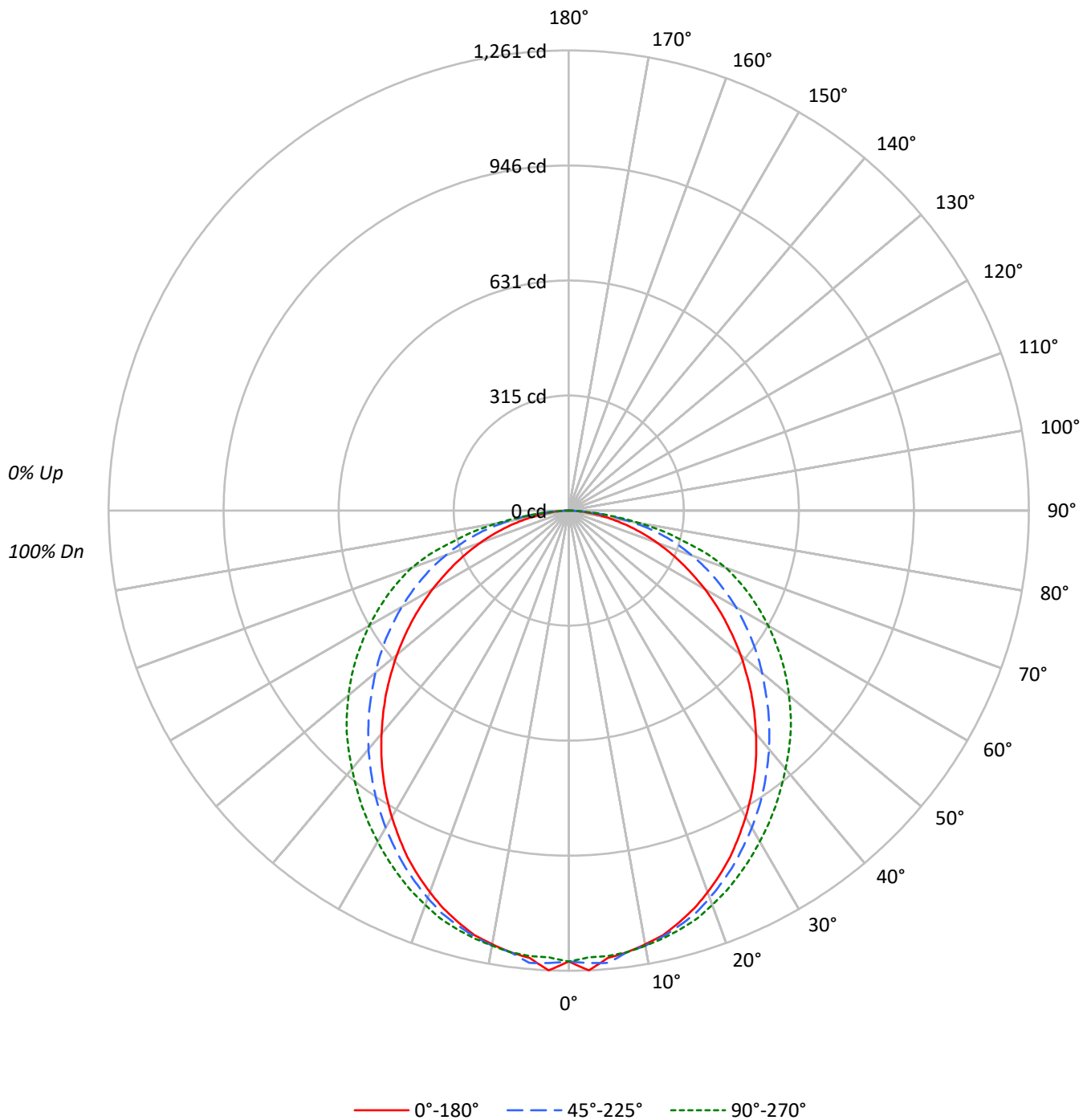
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259367

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P259367

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-2700K

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3325	3325	3325
5°	3324	3361	3311
10°	3298	3308	3308
15°	3255	3278	3307
20°	3187	3235	3293
25°	3109	3179	3274
30°	3013	3118	3254
35°	2915	3058	3246
40°	2803	2998	3247
45°	2691	2941	3274
50°	2573	2897	3298
55°	2449	2867	3341
60°	2320	2845	3398
65°	2176	2830	3484
70°	2027	2821	3603
75°	1838	2818	3413
80°	1592	2610	3027
85°	1352	1976	1924



TEST NUMBER: P259367

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	3.4
10°-20°	332.0	9.6
20°-30°	493.9	14.3
30°-40°	584.1	16.9
40°-50°	600.3	17.3
50°-60°	548.6	15.8
60°-70°	438.8	12.7
70°-80°	275.4	8.0
80°-90°	71.7	2.1
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°	943.0	27.2
0°-40°	1527.1	44.1
0°-60°	2676.0	77.3
0°-90°	3462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1231	1231	1244	1236	1226	117
15°	1168	1170	1177	1184	1187	329
25°	1047	1054	1071	1089	1103	481
35°	887	899	931	966	988	554
45°	707	726	773	830	860	545
55°	522	547	611	678	712	467
65°	342	372	444	512	547	339
75°	177	210	271	312	328	188
85°	44	56	64	62	62	51
90°	0	0	0	0	0	



TEST NUMBER: P259367

CATALOG NUMBER: 22CZ-LD5-44-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.7	1235.7	1235.7	1235.7	1235.7
2.5°	1261.0	1255.9	1240.8	1230.7	1225.6
5°	1230.7	1230.7	1244.1	1235.7	1225.6
7.5°	1220.6	1220.6	1220.6	1245.8	1220.6
10°	1207.1	1208.8	1210.5	1220.6	1210.5
12.5°	1191.9	1191.9	1195.3	1198.7	1200.4
15°	1168.4	1170.0	1176.8	1183.5	1186.9
17.5°	1143.1	1148.2	1156.6	1165.0	1171.7
20°	1112.8	1119.5	1129.6	1143.1	1149.8
22.5°	1080.8	1087.6	1101.0	1116.2	1128.0
25°	1047.2	1053.9	1070.7	1089.2	1102.7
27.5°	1008.4	1016.8	1037.0	1062.3	1075.8
30°	969.7	979.8	1003.4	1032.0	1047.2
32.5°	929.3	941.1	968.0	1000.0	1018.5
35°	887.2	899.0	931.0	966.3	988.2
37.5°	843.4	856.9	892.3	932.7	956.2
40°	798.0	813.1	853.5	897.3	924.3
42.5°	752.5	769.4	813.1	865.3	892.3
45°	707.1	725.6	772.7	830.0	860.3
47.5°	659.9	681.8	730.6	794.6	824.9
50°	614.5	636.4	691.9	757.6	787.9
52.5°	567.3	592.6	651.5	718.9	750.9
55°	521.9	547.1	611.1	678.5	712.1
57.5°	476.4	501.7	569.0	638.1	671.7
60°	431.0	457.9	528.6	596.0	631.3
62.5°	385.5	414.1	486.5	555.6	589.2
65°	341.8	372.1	444.4	511.8	547.1
67.5°	299.7	331.7	402.4	468.0	503.4
70°	257.6	289.6	358.6	422.6	457.9
72.5°	217.2	249.2	316.5	373.7	400.7
75°	176.8	210.4	271.0	311.5	328.3
77.5°	138.0	171.7	223.9	250.8	269.4
80°	102.7	131.3	168.4	188.6	195.3
82.5°	70.7	94.3	117.8	122.9	126.3
85°	43.8	55.6	64.0	62.3	62.3
87.5°	20.2	21.9	18.5	13.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)