

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: P259360

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259360
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-LD5-39-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 111.5 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

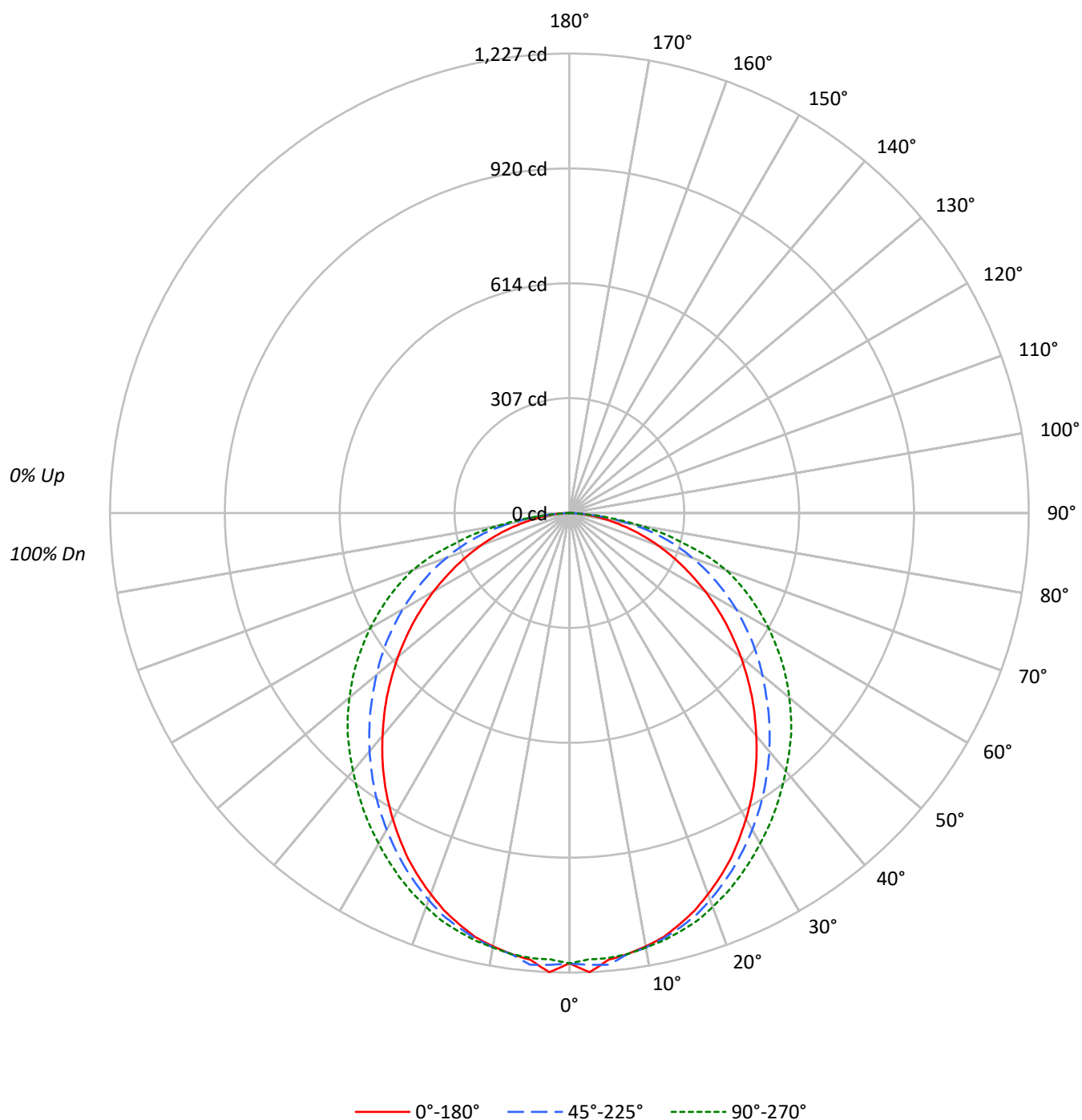
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	3236	3236	3236
5°	3235	3270	3222
10°	3210	3219	3219
15°	3168	3190	3218
20°	3101	3148	3204
25°	3026	3094	3186
30°	2932	3034	3166
35°	2836	2976	3159
40°	2728	2918	3159
45°	2619	2862	3186
50°	2503	2819	3210
55°	2383	2790	3251
60°	2257	2768	3307
65°	2118	2754	3390
70°	1972	2746	3506
75°	1788	2743	3322
80°	1548	2538	2944
85°	1315	1924	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.4
10°-20°	323.1	9.6
20°-30°	480.6	14.3
30°-40°	568.4	16.9
40°-50°	584.2	17.3
50°-60°	533.8	15.8
60°-70°	427.0	12.7
70°-80°	268.0	8.0
80°-90°	69.8	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°	917.7	27.2
0°-40°	1486.1	44.1
0°-60°	2604.1	77.3
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1198	1198	1211	1202	1193	114
15°	1137	1139	1145	1152	1155	320
25°	1019	1026	1042	1060	1073	469
35°	863	875	906	940	962	540
45°	688	706	752	808	837	531
55°	508	532	595	660	693	454
65°	333	362	432	498	532	330
75°	172	205	264	303	320	183
85°	43	54	62	61	61	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.5	1202.5	1202.5	1202.5	1202.5
2.5°	1227.1	1222.2	1207.4	1197.6	1192.7
5°	1197.6	1197.6	1210.7	1202.5	1192.7
7.5°	1187.8	1187.8	1187.8	1212.3	1187.8
10°	1174.7	1176.3	1177.9	1187.8	1177.9
12.5°	1159.9	1159.9	1163.2	1166.5	1168.1
15°	1137.0	1138.6	1145.2	1151.7	1155.0
17.5°	1112.4	1117.3	1125.5	1133.7	1140.3
20°	1082.9	1089.5	1099.3	1112.4	1119.0
22.5°	1051.8	1058.3	1071.4	1086.2	1097.7
25°	1019.0	1025.6	1042.0	1060.0	1073.1
27.5°	981.3	989.5	1009.2	1033.8	1046.9
30°	943.7	953.5	976.4	1004.3	1019.0
32.5°	904.3	915.8	942.0	973.1	991.2
35°	863.4	874.9	906.0	940.4	961.7
37.5°	820.8	833.9	868.3	907.6	930.6
40°	776.6	791.3	830.6	873.2	899.4
42.5°	732.3	748.7	791.3	842.1	868.3
45°	688.1	706.1	752.0	807.7	837.2
47.5°	642.2	663.5	711.0	773.3	802.8
50°	598.0	619.3	673.3	737.2	766.7
52.5°	552.1	576.7	634.0	699.6	730.7
55°	507.9	532.4	594.7	660.2	693.0
57.5°	463.6	488.2	553.7	620.9	653.7
60°	419.4	445.6	514.4	580.0	614.4
62.5°	375.2	403.0	473.5	540.6	573.4
65°	332.6	362.1	432.5	498.0	532.4
67.5°	291.6	322.7	391.6	455.4	489.9
70°	250.7	281.8	349.0	411.2	445.6
72.5°	211.3	242.5	308.0	363.7	389.9
75°	172.0	204.8	263.8	303.1	319.5
77.5°	134.3	167.1	217.9	244.1	262.1
80°	99.9	127.8	163.8	183.5	190.0
82.5°	68.8	91.7	114.7	119.6	122.9
85°	42.6	54.1	62.3	60.6	60.6
87.5°	19.7	21.3	18.0	13.1	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)