

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: P259529

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3548.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

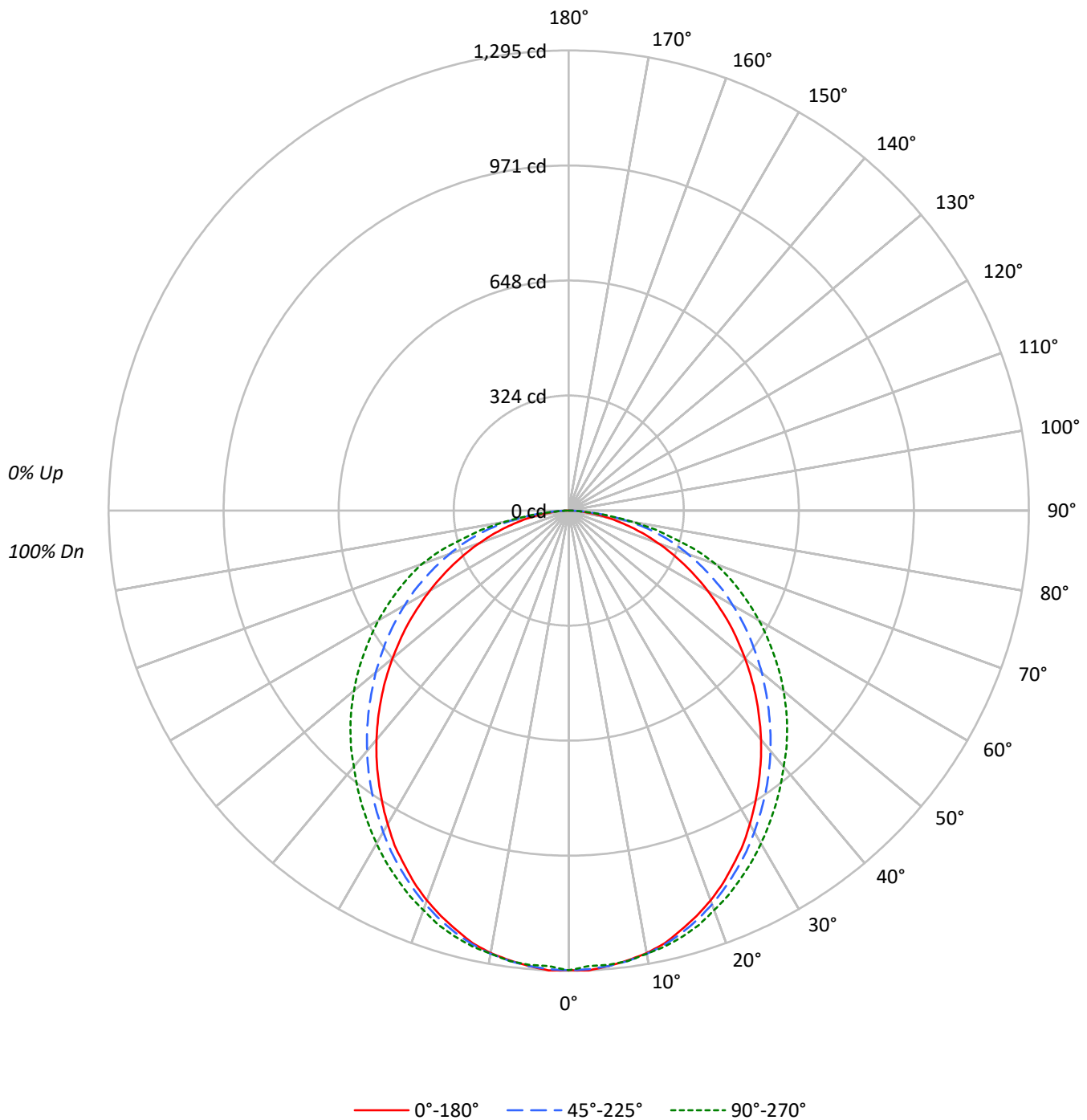
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3481	3481	3481
5°	3475	3475	3466
10°	3455	3460	3460
15°	3404	3428	3456
20°	3343	3377	3426
25°	3259	3314	3395
30°	3167	3246	3362
35°	3062	3174	3331
40°	2957	3101	3305
45°	2841	3029	3307
50°	2711	2968	3303
55°	2582	2918	3302
60°	2430	2871	3329
65°	2279	2832	3375
70°	2105	2803	3460
75°	1895	2782	3208
80°	1664	2588	2799
85°	1368	1948	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.4
10°-20°	347.0	9.8
20°-30°	515.4	14.5
30°-40°	606.6	17.1
40°-50°	618.4	17.4
50°-60°	557.8	15.7
60°-70°	439.3	12.4
70°-80°	271.0	7.6
80°-90°	70.3	2.0
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°	984.5	27.7
0°-40°	1591.1	44.8
0°-60°	2767.3	78.0
0°-90°	3548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1287	1288	1287	1285	1283	122
15°	1222	1227	1230	1237	1241	345
25°	1098	1104	1116	1135	1144	506
35°	932	942	966	997	1014	583
45°	746	758	796	844	869	575
55°	550	569	622	678	704	491
65°	358	383	445	501	530	355
75°	182	213	268	298	308	195
85°	44	56	63	60	56	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.5	1293.5	1293.5	1293.5	1293.5
2.5°	1295.2	1295.2	1291.8	1288.3	1283.2
5°	1286.6	1288.3	1286.6	1284.9	1283.2
7.5°	1276.4	1278.1	1278.1	1278.1	1278.1
10°	1264.5	1266.2	1266.2	1266.2	1266.2
12.5°	1247.4	1249.1	1250.9	1252.6	1256.0
15°	1221.9	1227.0	1230.4	1237.2	1240.6
17.5°	1196.3	1201.4	1206.5	1215.1	1221.9
20°	1167.3	1170.8	1179.3	1189.5	1196.3
22.5°	1135.0	1140.1	1148.6	1162.2	1172.5
25°	1097.5	1104.3	1116.2	1135.0	1143.5
27.5°	1061.7	1066.8	1082.1	1102.6	1114.5
30°	1019.1	1025.9	1044.6	1070.2	1082.1
32.5°	976.5	985.0	1005.5	1034.4	1048.1
35°	932.2	942.4	966.3	996.9	1014.0
37.5°	887.9	898.1	925.4	959.4	978.2
40°	841.9	852.1	882.8	920.2	940.7
42.5°	794.1	806.1	840.1	882.8	906.6
45°	746.4	758.4	795.8	843.6	869.1
47.5°	697.0	710.6	751.5	804.4	829.9
50°	647.6	662.9	708.9	763.5	789.0
52.5°	598.2	615.2	664.6	720.9	748.1
55°	550.4	569.2	622.0	678.3	703.8
57.5°	499.3	521.5	577.7	632.2	661.2
60°	451.6	475.5	533.4	587.9	618.6
62.5°	403.9	429.4	490.8	545.3	574.3
65°	357.9	383.4	444.8	501.0	530.0
67.5°	311.9	340.8	400.5	456.7	485.7
70°	267.6	298.2	356.2	410.7	439.7
72.5°	224.9	255.6	313.6	364.7	381.7
75°	182.3	213.0	267.6	298.2	308.5
77.5°	143.1	172.1	219.8	238.6	252.2
80°	107.4	132.9	167.0	178.9	180.6
82.5°	73.3	95.4	115.9	117.6	115.9
85°	44.3	56.2	63.1	59.6	56.2
87.5°	20.4	22.2	20.4	13.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)