

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: P259306

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259306
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-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3846.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

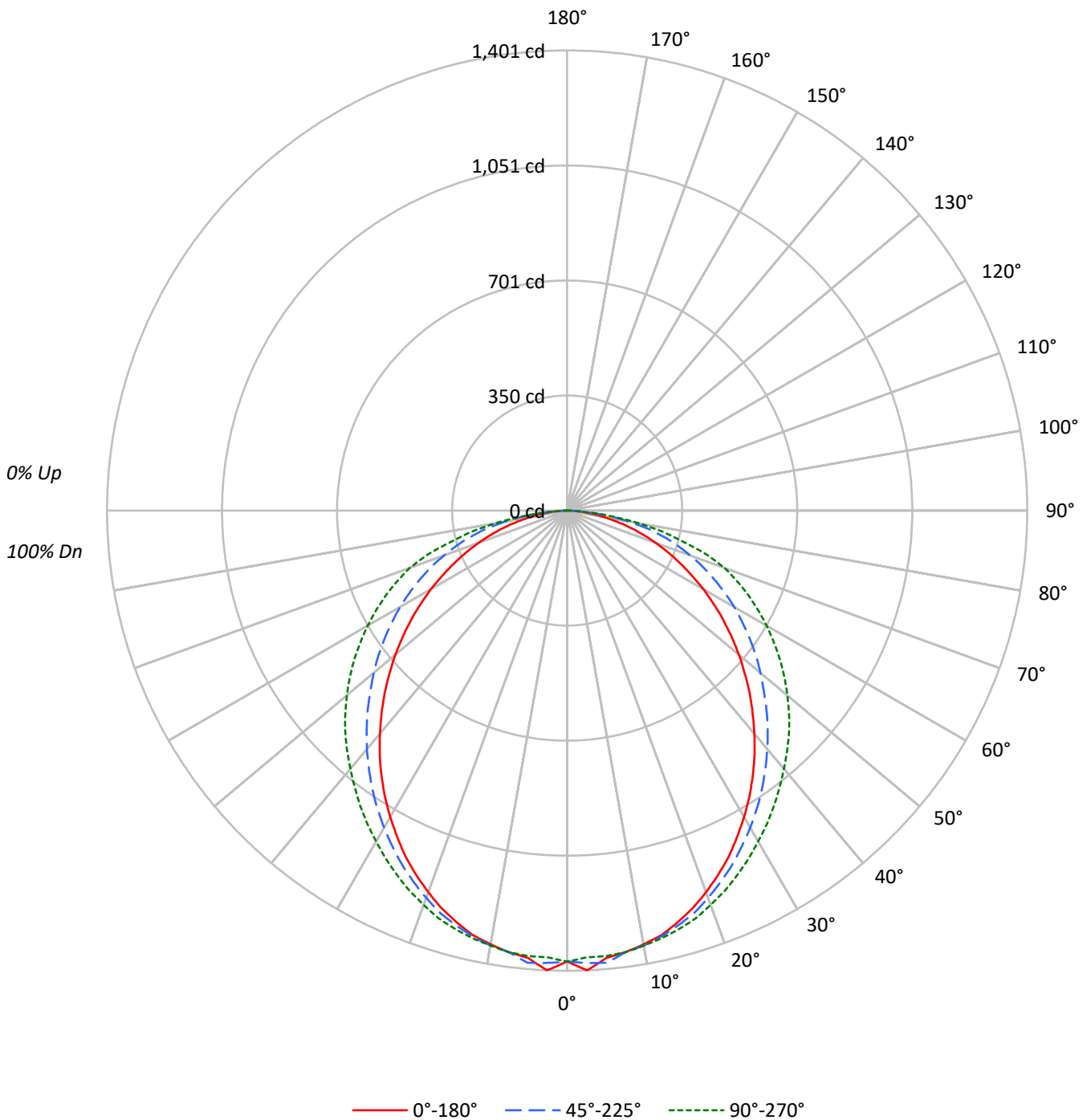
Input Watts (W): 30.318
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3694	3694	3694
5°	3693	3733	3678
10°	3664	3674	3674
15°	3616	3642	3673
20°	3540	3594	3658
25°	3454	3532	3637
30°	3347	3464	3615
35°	3238	3398	3606
40°	3114	3331	3607
45°	2989	3267	3637
50°	2858	3218	3664
55°	2720	3185	3712
60°	2577	3161	3774
65°	2418	3144	3870
70°	2251	3135	4002
75°	2042	3131	3792
80°	1768	2898	3361
85°	1501	2195	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.4
10°-20°	368.8	9.6
20°-30°	548.6	14.3
30°-40°	648.9	16.9
40°-50°	666.9	17.3
50°-60°	609.4	15.8
60°-70°	487.5	12.7
70°-80°	306.0	8.0
80°-90°	79.7	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°	1047.6	27.2
0°-40°	1696.5	44.1
0°-60°	2972.8	77.3
0°-90°	3846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1367	1367	1382	1373	1362	130
15°	1298	1300	1307	1315	1318	366
25°	1163	1171	1190	1210	1225	535
35°	986	999	1034	1074	1098	616
45°	786	806	858	922	956	606
55°	580	608	679	754	791	519
65°	380	413	494	569	608	377
75°	196	234	301	346	365	209
85°	49	62	71	69	69	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.8	1372.8	1372.8	1372.8	1372.8
2.5°	1400.8	1395.2	1378.4	1367.2	1361.5
5°	1367.2	1367.2	1382.1	1372.8	1361.5
7.5°	1355.9	1355.9	1355.9	1384.0	1355.9
10°	1341.0	1342.8	1344.7	1355.9	1344.7
12.5°	1324.1	1324.1	1327.9	1331.6	1333.5
15°	1298.0	1299.8	1307.3	1314.8	1318.5
17.5°	1269.9	1275.5	1284.9	1294.2	1301.7
20°	1236.2	1243.7	1254.9	1269.9	1277.4
22.5°	1200.7	1208.2	1223.1	1240.0	1253.1
25°	1163.3	1170.8	1189.5	1210.1	1225.0
27.5°	1120.3	1129.6	1152.1	1180.1	1195.1
30°	1077.3	1088.5	1114.7	1146.5	1163.3
32.5°	1032.4	1045.5	1075.4	1110.9	1131.5
35°	985.6	998.7	1034.3	1073.5	1097.8
37.5°	937.0	952.0	991.2	1036.1	1062.3
40°	886.5	903.3	948.2	996.8	1026.8
42.5°	836.0	854.7	903.3	961.3	991.2
45°	785.5	806.1	858.4	922.0	955.7
47.5°	733.1	757.5	811.7	882.8	916.4
50°	682.6	707.0	768.7	841.6	875.3
52.5°	630.3	658.3	723.8	798.6	834.1
55°	579.8	607.8	678.9	753.7	791.1
57.5°	529.3	557.3	632.1	708.8	746.2
60°	478.8	508.7	587.3	662.1	701.3
62.5°	428.3	460.1	540.5	617.2	654.6
65°	379.7	413.3	493.7	568.6	607.8
67.5°	332.9	368.4	447.0	519.9	559.2
70°	286.1	321.7	398.4	469.4	508.7
72.5°	241.3	276.8	351.6	415.2	445.1
75°	196.4	233.8	301.1	346.0	364.7
77.5°	153.4	190.8	248.7	278.7	299.2
80°	114.1	145.9	187.0	209.5	216.9
82.5°	78.6	104.7	130.9	136.5	140.3
85°	48.6	61.7	71.1	69.2	69.2
87.5°	22.4	24.3	20.6	15.0	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)