

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: P275542

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

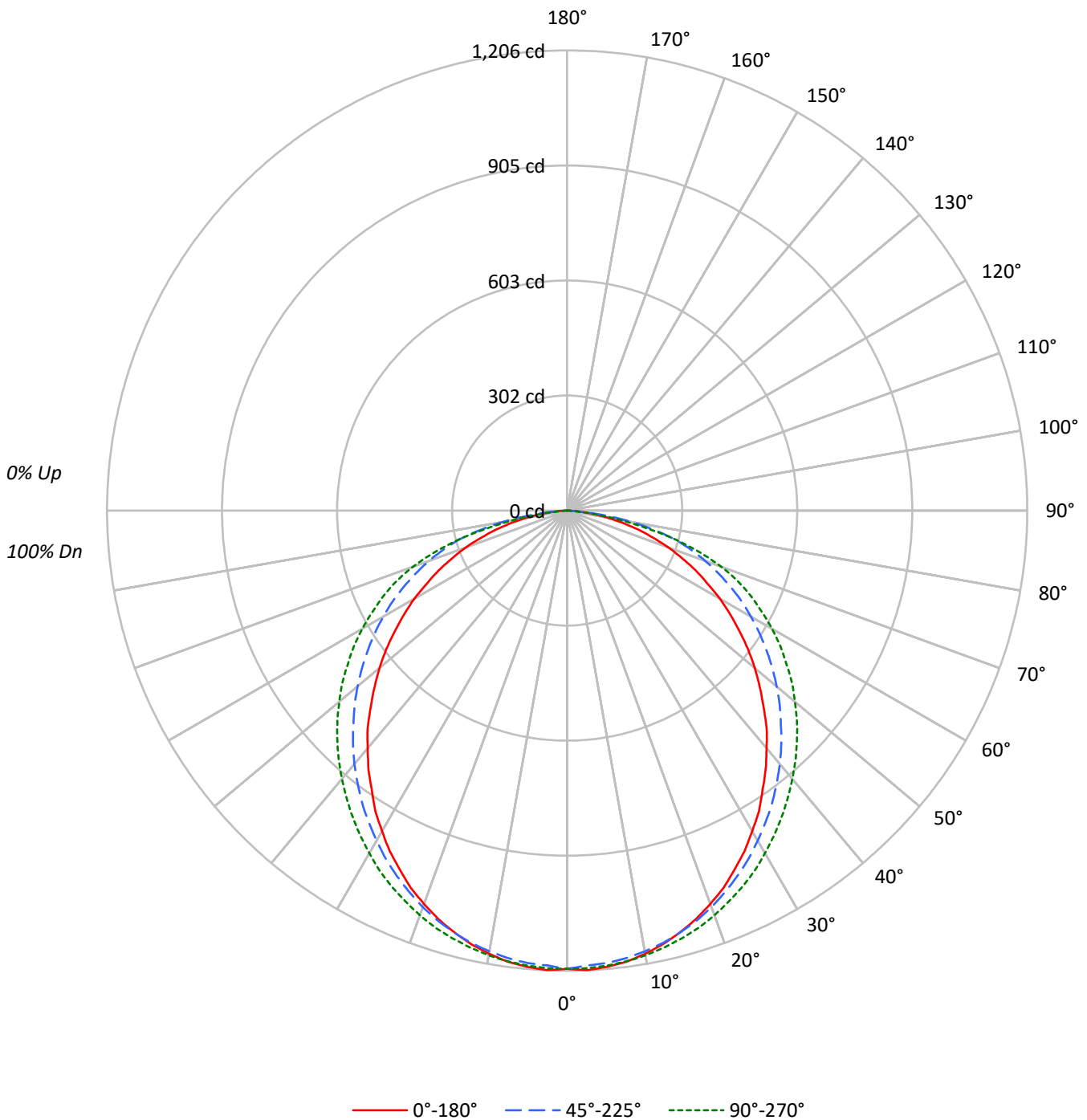
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275542

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P275542

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-4500K

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	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	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3232	3232	3232
5°	3242	3215	3234
10°	3222	3205	3235
15°	3188	3190	3233
20°	3141	3168	3232
25°	3081	3137	3229
30°	3014	3104	3222
35°	2934	3077	3220
40°	2856	3047	3225
45°	2769	3014	3242
50°	2688	3000	3264
55°	2586	2990	3293
60°	2493	2996	3338
65°	2366	3004	3391
70°	2220	3028	3388
75°	2012	3055	3063
80°	1650	2638	2180
85°	1223	1247	503



TEST NUMBER: P275542

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.3
10°-20°	324.6	9.3
20°-30°	489.0	14.0
30°-40°	586.8	16.8
40°-50°	611.6	17.5
50°-60°	566.2	16.2
60°-70°	457.5	13.1
70°-80°	278.9	8.0
80°-90°	57.6	1.7
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°	927.3	26.6
0°-40°	1514.1	43.4
0°-60°	2692.0	77.2
0°-90°	3486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1200	1197	1190	1199	1197	114
15°	1144	1145	1145	1160	1160	323
25°	1038	1044	1056	1083	1088	478
35°	893	907	937	971	980	559
45°	728	749	792	836	852	562
55°	551	580	637	687	702	494
65°	372	408	472	519	532	367
75°	194	236	294	298	295	203
85°	40	59	40	22	16	49
90°	0	0	0	0	0	



TEST NUMBER: P275542

CATALOG NUMBER: 14CZ2-39-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1205.6	1201.7	1193.2	1201.7	1200.2
5°	1200.2	1197.1	1190.1	1198.6	1197.1
7.5°	1192.4	1189.3	1183.1	1193.2	1191.6
10°	1179.2	1177.6	1173.0	1184.6	1183.8
12.5°	1163.6	1162.9	1160.5	1173.7	1173.0
15°	1144.2	1145.0	1145.0	1160.5	1160.5
17.5°	1122.4	1124.0	1127.1	1144.2	1146.5
20°	1096.8	1099.9	1106.1	1125.5	1128.6
22.5°	1070.4	1072.7	1082.0	1105.3	1108.4
25°	1037.7	1043.9	1056.4	1082.8	1087.5
27.5°	1006.6	1012.1	1029.2	1056.4	1064.1
30°	970.1	978.6	998.8	1028.4	1036.9
32.5°	935.1	944.4	967.7	1001.9	1009.7
35°	893.1	907.1	936.7	970.9	980.2
37.5°	855.0	868.3	901.7	939.0	949.9
40°	813.1	829.4	867.5	907.1	918.0
42.5°	774.2	789.7	830.9	871.4	886.1
45°	727.6	749.3	792.1	836.4	851.9
47.5°	684.8	706.6	755.5	803.0	816.9
50°	642.1	665.4	716.7	765.6	779.6
52.5°	597.7	622.6	677.8	726.8	743.1
55°	551.1	579.9	637.4	687.1	701.9
57.5°	506.8	536.3	597.7	648.3	663.0
60°	463.3	493.6	556.6	604.7	620.3
62.5°	415.1	450.8	516.1	563.5	575.2
65°	371.6	408.1	471.8	519.2	532.5
67.5°	325.7	365.3	429.1	472.6	485.0
70°	282.2	323.4	384.8	425.2	430.6
72.5°	235.5	277.5	339.7	365.3	365.3
75°	193.5	236.3	293.8	298.5	294.6
77.5°	147.7	195.1	232.4	223.1	213.8
80°	106.5	153.1	170.2	153.1	140.7
82.5°	71.5	111.2	102.6	81.6	72.3
85°	39.6	59.1	40.4	22.5	16.3
87.5°	14.8	13.2	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)