

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: P258859

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

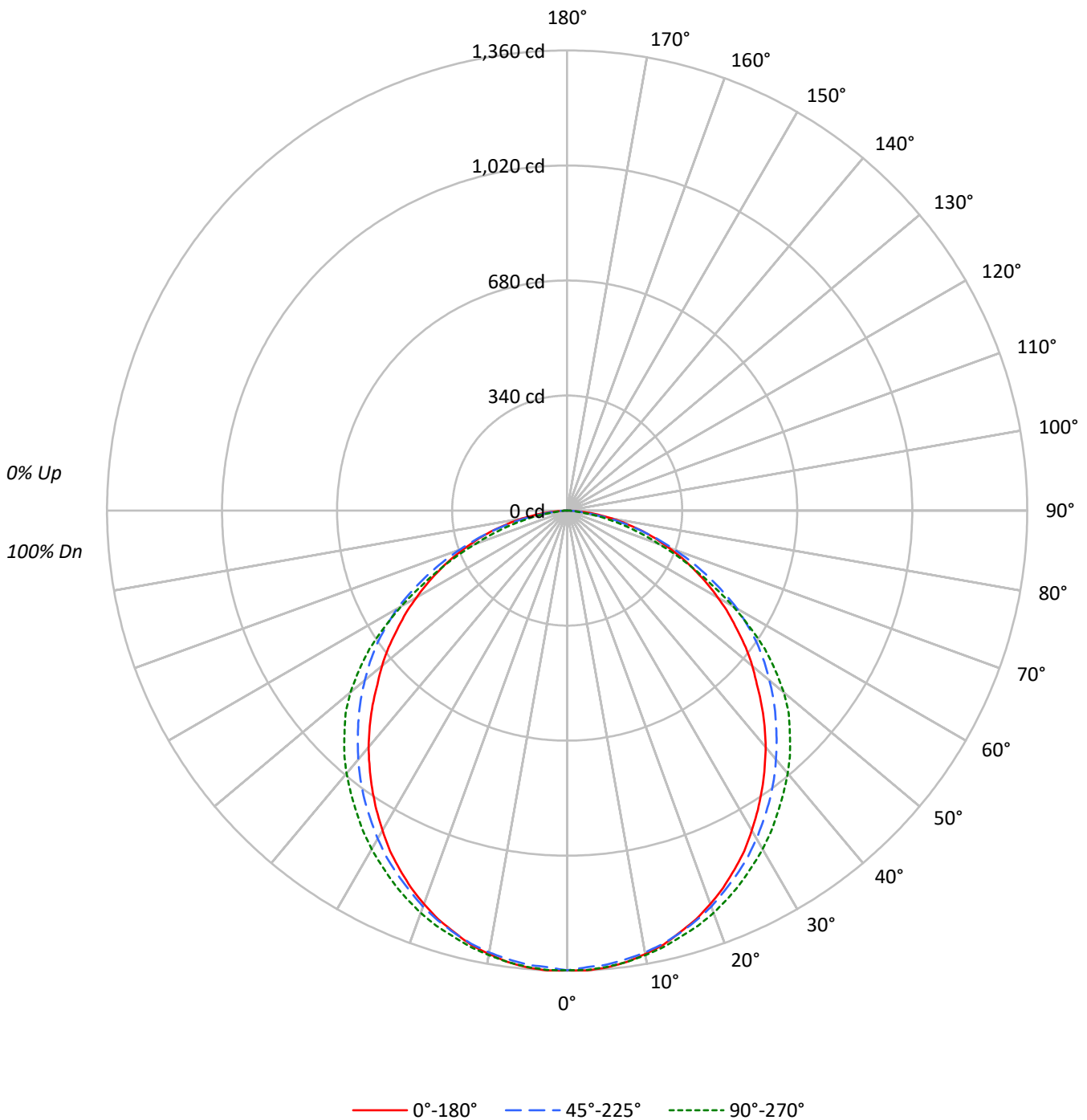
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3656	3656	3656
5°	3661	3639	3657
10°	3636	3623	3645
15°	3593	3598	3630
20°	3544	3567	3623
25°	3475	3523	3606
30°	3392	3478	3590
35°	3301	3430	3570
40°	3207	3374	3564
45°	3094	3318	3543
50°	2992	3266	3499
55°	2876	3214	3345
60°	2770	3123	3052
65°	2651	2922	2682
70°	2501	2656	2269
75°	2334	2301	1875
80°	2058	1777	1371
85°	1618	861	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.5
10°-20°	365.7	9.9
20°-30°	548.9	14.9
30°-40°	654.4	17.8
40°-50°	674.0	18.3
50°-60°	600.7	16.3
60°-70°	432.8	11.8
70°-80°	226.4	6.2
80°-90°	46.8	1.3
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°	1043.0	28.4
0°-40°	1697.3	46.1
0°-60°	2972.0	80.8
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1355	1352	1347	1355	1354	129
15°	1290	1292	1292	1305	1303	364
25°	1170	1177	1187	1210	1214	539
35°	1005	1018	1044	1078	1087	628
45°	813	831	872	921	931	627
55°	613	633	685	716	713	550
65°	416	431	459	438	421	412
75°	224	236	221	192	180	238
85°	52	46	28	25	25	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.7	1358.7	1358.7	1358.7	1358.7
2.5°	1360.3	1357.0	1350.5	1358.7	1358.7
5°	1355.4	1352.1	1347.2	1355.4	1353.7
7.5°	1345.5	1342.3	1337.3	1347.2	1345.5
10°	1330.8	1329.2	1325.9	1335.7	1334.1
12.5°	1314.4	1312.8	1311.1	1321.0	1321.0
15°	1289.8	1291.5	1291.5	1304.6	1302.9
17.5°	1266.9	1268.5	1270.2	1286.5	1286.5
20°	1237.4	1239.0	1245.6	1263.6	1265.2
22.5°	1206.2	1207.9	1216.1	1237.4	1240.7
25°	1170.2	1176.7	1186.6	1209.5	1214.4
27.5°	1134.1	1139.0	1155.4	1181.7	1184.9
30°	1091.5	1101.3	1119.4	1148.9	1155.4
32.5°	1048.9	1060.4	1081.7	1114.5	1122.7
35°	1004.7	1017.8	1044.0	1078.4	1086.6
37.5°	958.8	970.2	1003.0	1039.1	1050.5
40°	912.9	924.3	960.4	1001.4	1014.5
42.5°	863.7	880.1	916.1	962.0	975.2
45°	812.9	830.9	871.9	921.1	930.9
47.5°	760.5	780.1	827.6	876.8	888.3
50°	714.6	732.6	780.1	827.6	835.8
52.5°	665.4	681.8	734.2	773.6	775.2
55°	613.0	632.6	685.1	716.2	712.9
57.5°	565.4	581.8	632.6	649.0	639.2
60°	514.6	529.4	580.2	581.8	567.1
62.5°	465.4	480.2	519.5	508.1	490.0
65°	416.3	431.0	458.9	437.6	421.2
67.5°	368.8	381.9	398.3	370.4	354.0
70°	317.9	336.0	337.6	304.8	288.4
72.5°	273.7	283.5	280.3	249.1	234.4
75°	224.5	236.0	221.3	191.8	180.3
77.5°	178.6	186.8	167.2	139.3	131.1
80°	132.8	137.7	114.7	93.4	88.5
82.5°	90.1	90.1	65.6	50.8	45.9
85°	52.4	45.9	27.9	24.6	24.6
87.5°	18.0	11.5	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)