

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: P258862

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258862
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3776.0 lumens
Efficiency: N/A
Efficacy: 116.3 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

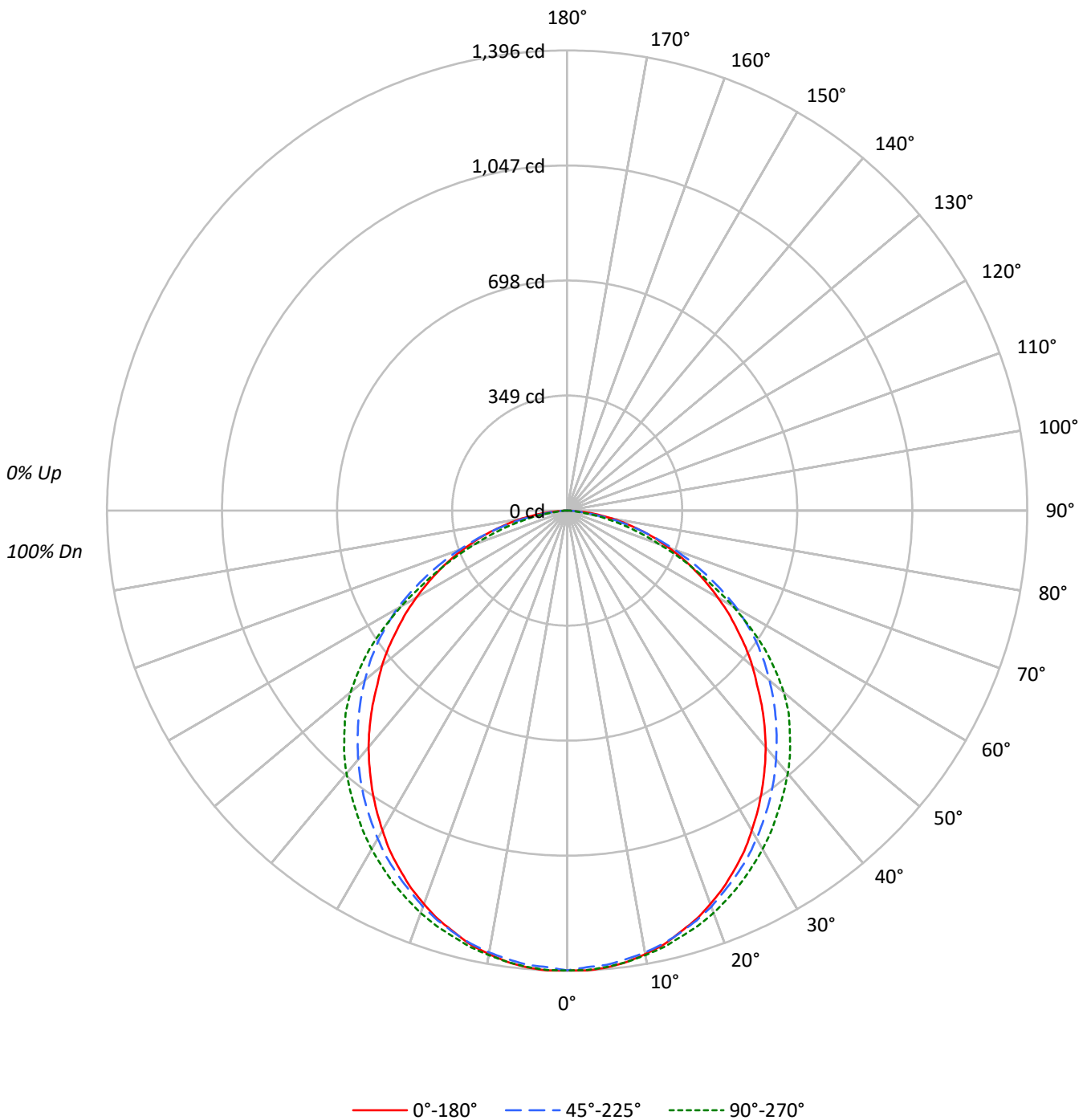
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3754	3754	3754
5°	3759	3736	3754
10°	3733	3719	3742
15°	3689	3694	3726
20°	3638	3662	3720
25°	3567	3617	3702
30°	3482	3571	3686
35°	3388	3521	3665
40°	3292	3464	3659
45°	3176	3406	3637
50°	3071	3353	3592
55°	2952	3300	3434
60°	2843	3205	3133
65°	2721	3000	2753
70°	2568	2727	2330
75°	2397	2361	1925
80°	2112	1826	1409
85°	1661	883	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.5
10°-20°	375.5	9.9
20°-30°	563.5	14.9
30°-40°	671.8	17.8
40°-50°	692.0	18.3
50°-60°	616.7	16.3
60°-70°	444.3	11.8
70°-80°	232.4	6.2
80°-90°	48.1	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°	1070.8	28.4
0°-40°	1742.6	46.1
0°-60°	3051.2	80.8
0°-90°	3776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1392	1388	1383	1392	1390	132
15°	1324	1326	1326	1339	1338	374
25°	1201	1208	1218	1242	1247	553
35°	1031	1045	1072	1107	1116	645
45°	835	853	895	946	956	644
55°	629	650	703	735	732	564
65°	427	442	471	449	432	423
75°	230	242	227	197	185	244
85°	54	47	29	25	25	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.9	1394.9	1394.9	1394.9	1394.9
2.5°	1396.5	1393.2	1386.4	1394.9	1394.9
5°	1391.5	1388.1	1383.1	1391.5	1389.8
7.5°	1381.4	1378.0	1373.0	1383.1	1381.4
10°	1366.3	1364.6	1361.2	1371.3	1369.6
12.5°	1349.4	1347.7	1346.1	1356.2	1356.2
15°	1324.2	1325.9	1325.9	1339.3	1337.6
17.5°	1300.6	1302.3	1304.0	1320.8	1320.8
20°	1270.3	1272.0	1278.8	1297.3	1298.9
22.5°	1238.4	1240.1	1248.5	1270.3	1273.7
25°	1201.4	1208.1	1218.2	1241.7	1246.8
27.5°	1164.3	1169.4	1186.2	1213.1	1216.5
30°	1120.6	1130.7	1149.2	1179.5	1186.2
32.5°	1076.8	1088.6	1110.5	1144.2	1152.6
35°	1031.4	1044.9	1071.8	1107.1	1115.5
37.5°	984.3	996.1	1029.7	1066.8	1078.5
40°	937.2	949.0	986.0	1028.1	1041.5
42.5°	886.7	903.5	940.6	987.7	1001.1
45°	834.6	853.1	895.1	945.6	955.7
47.5°	780.7	800.9	849.7	900.2	912.0
50°	733.6	752.1	800.9	849.7	858.1
52.5°	683.1	700.0	753.8	794.2	795.9
55°	629.3	649.5	703.3	735.3	731.9
57.5°	580.5	597.3	649.5	666.3	656.2
60°	528.3	543.5	595.6	597.3	582.2
62.5°	477.9	493.0	533.4	521.6	503.1
65°	427.4	442.5	471.1	449.2	432.4
67.5°	378.6	392.0	408.9	380.3	363.4
70°	326.4	344.9	346.6	313.0	296.1
72.5°	281.0	291.1	287.7	255.8	240.6
75°	230.5	242.3	227.1	196.9	185.1
77.5°	183.4	191.8	171.6	143.0	134.6
80°	136.3	141.3	117.8	95.9	90.9
82.5°	92.5	92.5	67.3	52.2	47.1
85°	53.8	47.1	28.6	25.2	25.2
87.5°	18.5	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)