

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: P258640

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

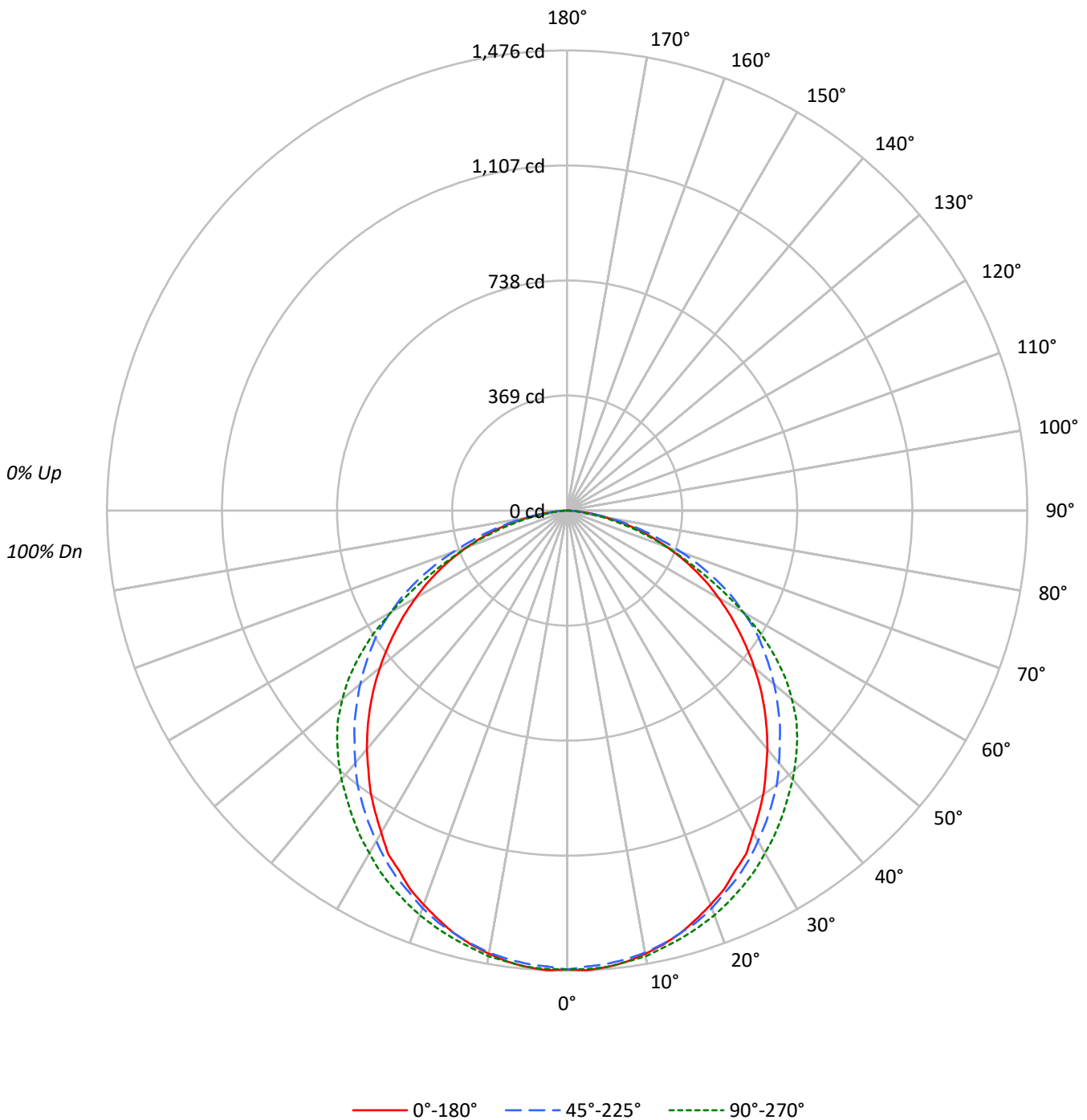
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3960	3960	3960
5°	3970	3943	3970
10°	3944	3933	3966
15°	3909	3909	3954
20°	3852	3886	3955
25°	3784	3850	3952
30°	3704	3805	3942
35°	3613	3764	3943
40°	3510	3715	3955
45°	3405	3672	3971
50°	3283	3628	3939
55°	3150	3594	3810
60°	3019	3517	3506
65°	2880	3366	3072
70°	2674	3068	2658
75°	2425	2675	2195
80°	1931	2118	1619
85°	1365	1179	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	3.4
10°-20°	397.8	9.8
20°-30°	599.8	14.7
30°-40°	718.9	17.6
40°-50°	746.1	18.3
50°-60°	672.9	16.5
60°-70°	490.9	12.0
70°-80°	257.5	6.3
80°-90°	54.9	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°	1136.8	27.9
0°-40°	1855.7	45.5
0°-60°	3274.7	80.3
0°-90°	4078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1470	1466	1460	1470	1470	139
15°	1403	1403	1403	1419	1419	395
25°	1275	1281	1297	1325	1331	588
35°	1100	1112	1146	1188	1200	687
45°	895	913	965	1023	1043	690
55°	672	696	766	816	812	601
65°	452	478	529	509	482	447
75°	233	265	257	223	211	245
85°	44	54	38	32	30	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.6	1471.6	1471.6	1471.6	1471.6
2.5°	1475.7	1471.6	1463.6	1471.6	1471.6
5°	1469.6	1465.6	1459.6	1469.6	1469.6
7.5°	1459.6	1455.6	1451.5	1461.6	1459.6
10°	1443.5	1441.5	1439.5	1451.5	1451.5
12.5°	1425.4	1425.4	1423.4	1437.5	1435.4
15°	1403.3	1403.3	1403.3	1419.4	1419.4
17.5°	1375.1	1379.2	1383.2	1401.3	1401.3
20°	1345.0	1349.0	1357.0	1379.2	1381.2
22.5°	1314.8	1316.8	1324.9	1351.0	1357.0
25°	1274.6	1280.6	1296.7	1324.9	1330.9
27.5°	1242.4	1244.5	1262.6	1294.7	1302.8
30°	1192.2	1206.3	1224.4	1260.5	1268.6
32.5°	1145.9	1158.0	1186.2	1224.4	1236.4
35°	1099.7	1111.8	1145.9	1188.2	1200.2
37.5°	1047.4	1065.5	1105.7	1148.0	1162.0
40°	999.2	1015.3	1057.5	1109.8	1125.8
42.5°	946.9	963.0	1009.2	1067.5	1085.6
45°	894.6	912.7	965.0	1023.3	1043.4
47.5°	840.4	860.5	914.7	979.1	997.2
50°	784.1	806.2	866.5	932.8	940.9
52.5°	727.8	751.9	816.2	874.5	882.6
55°	671.5	695.6	766.0	816.2	812.2
57.5°	617.2	643.3	715.7	741.8	737.8
60°	560.9	589.1	653.4	665.5	651.4
62.5°	508.6	534.8	595.1	585.0	566.9
65°	452.3	478.5	528.7	508.6	482.5
67.5°	396.1	428.2	460.4	426.2	406.1
70°	339.8	376.0	390.0	355.8	337.8
72.5°	285.5	323.7	319.7	285.5	273.4
75°	233.2	265.4	257.3	223.2	211.1
77.5°	176.9	213.1	195.0	166.9	156.8
80°	124.6	156.8	136.7	112.6	104.5
82.5°	82.4	104.5	84.4	66.3	60.3
85°	44.2	54.3	38.2	32.2	30.2
87.5°	18.1	16.1	14.1	14.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)