

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: P258637

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258637
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4017.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

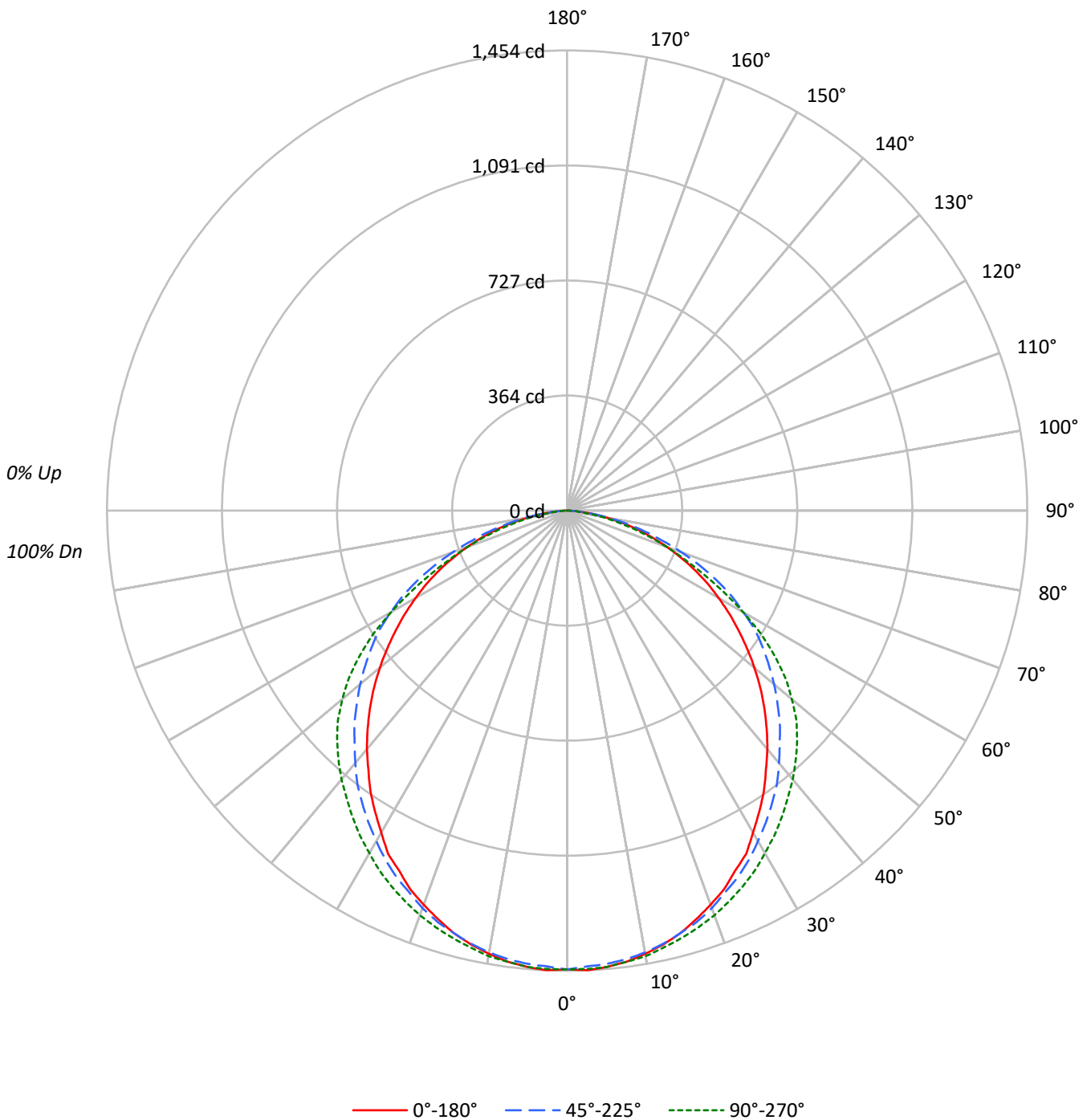
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3901	3901	3901
5°	3910	3884	3910
10°	3885	3874	3907
15°	3851	3851	3895
20°	3794	3828	3896
25°	3728	3793	3893
30°	3649	3747	3883
35°	3559	3708	3884
40°	3457	3659	3896
45°	3354	3618	3911
50°	3233	3573	3880
55°	3103	3540	3754
60°	2974	3464	3453
65°	2837	3316	3026
70°	2633	3023	2618
75°	2388	2636	2162
80°	1903	2087	1596
85°	1346	1161	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.4
10°-20°	391.8	9.8
20°-30°	590.8	14.7
30°-40°	708.2	17.6
40°-50°	734.9	18.3
50°-60°	662.8	16.5
60°-70°	483.5	12.0
70°-80°	253.7	6.3
80°-90°	54.1	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°	1119.8	27.9
0°-40°	1827.9	45.5
0°-60°	3225.7	80.3
0°-90°	4017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1448	1444	1438	1448	1448	137
15°	1382	1382	1382	1398	1398	389
25°	1256	1262	1277	1305	1311	579
35°	1083	1095	1129	1170	1182	677
45°	881	899	951	1008	1028	679
55°	661	685	754	804	800	592
65°	446	471	521	501	475	440
75°	230	261	254	220	208	241
85°	44	54	38	32	30	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.6	1449.6	1449.6	1449.6	1449.6
2.5°	1453.6	1449.6	1441.7	1449.6	1449.6
5°	1447.6	1443.7	1437.7	1447.6	1447.6
7.5°	1437.7	1433.8	1429.8	1439.7	1437.7
10°	1421.9	1419.9	1417.9	1429.8	1429.8
12.5°	1404.1	1404.1	1402.1	1416.0	1414.0
15°	1382.3	1382.3	1382.3	1398.1	1398.1
17.5°	1354.6	1358.5	1362.5	1380.3	1380.3
20°	1324.9	1328.8	1336.7	1358.5	1360.5
22.5°	1295.2	1297.1	1305.1	1330.8	1336.7
25°	1255.5	1261.5	1277.3	1305.1	1311.0
27.5°	1223.9	1225.8	1243.7	1275.4	1283.3
30°	1174.4	1188.2	1206.0	1241.7	1249.6
32.5°	1128.8	1140.7	1168.4	1206.0	1217.9
35°	1083.3	1095.1	1128.8	1170.4	1182.3
37.5°	1031.8	1049.6	1089.2	1130.8	1144.6
40°	984.2	1000.1	1041.7	1093.2	1109.0
42.5°	932.7	948.6	994.1	1051.6	1069.4
45°	881.3	899.1	950.6	1008.0	1027.8
47.5°	827.8	847.6	901.1	964.4	982.3
50°	772.3	794.1	853.5	918.9	926.8
52.5°	716.9	740.7	804.0	861.5	869.4
55°	661.4	685.2	754.5	804.0	800.1
57.5°	608.0	633.7	705.0	730.8	726.8
60°	552.5	580.2	643.6	655.5	641.6
62.5°	501.0	526.8	586.2	576.3	558.5
65°	445.6	471.3	520.8	501.0	475.3
67.5°	390.1	421.8	453.5	419.8	400.0
70°	334.7	370.3	384.2	350.5	332.7
72.5°	281.2	318.8	314.9	281.2	269.3
75°	229.7	261.4	253.5	219.8	207.9
77.5°	174.3	209.9	192.1	164.4	154.5
80°	122.8	154.5	134.7	110.9	103.0
82.5°	81.2	103.0	83.2	65.4	59.4
85°	43.6	53.5	37.6	31.7	29.7
87.5°	17.8	15.8	13.9	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)