

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: P258801

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258801
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-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

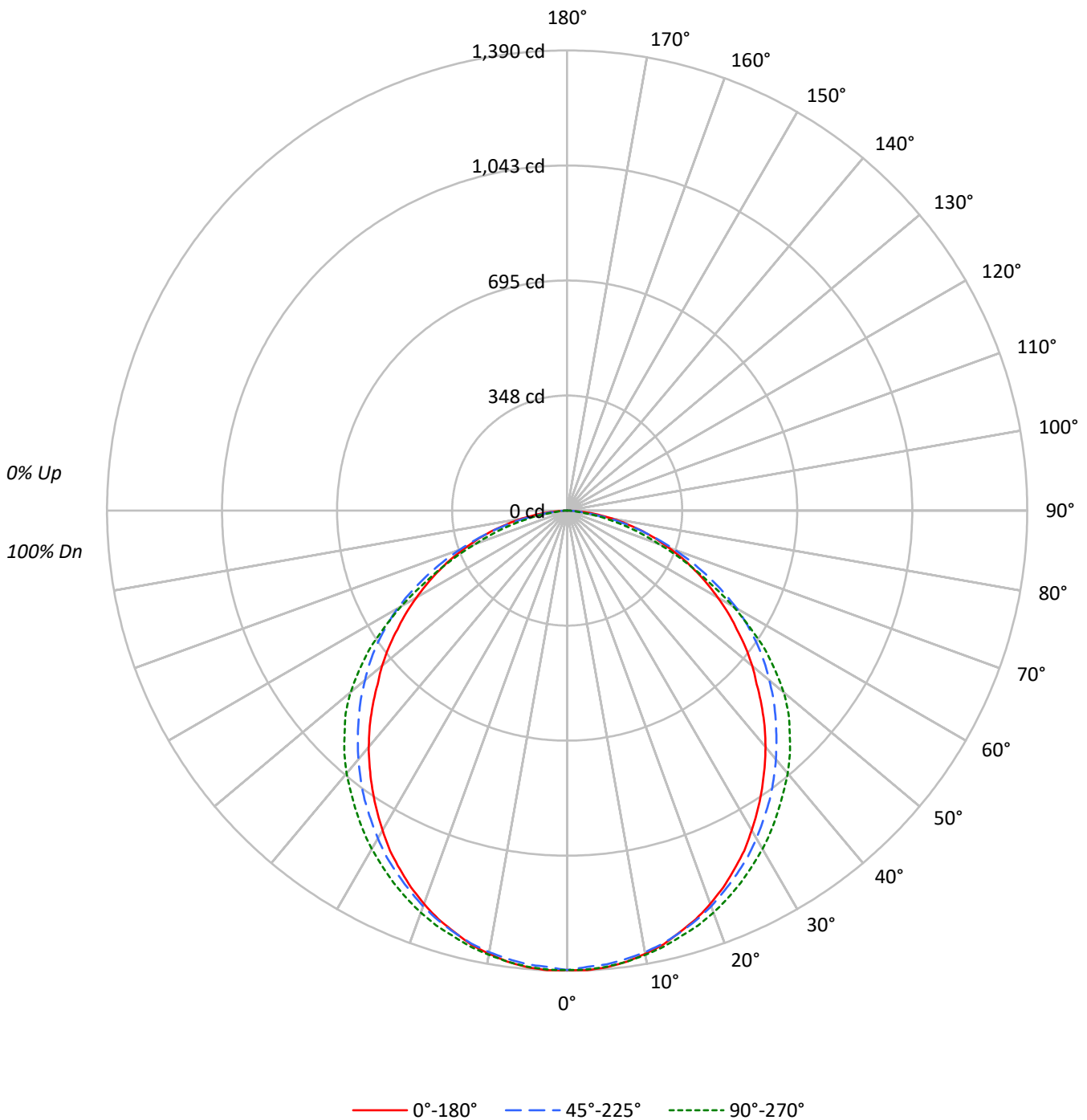
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3735	3735	3735
5°	3740	3717	3735
10°	3715	3701	3724
15°	3670	3675	3708
20°	3620	3643	3701
25°	3549	3599	3683
30°	3465	3553	3667
35°	3371	3503	3646
40°	3276	3446	3640
45°	3160	3389	3619
50°	3056	3336	3574
55°	2937	3283	3416
60°	2829	3189	3117
65°	2707	2985	2739
70°	2555	2714	2318
75°	2385	2350	1915
80°	2101	1816	1401
85°	1655	880	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.5
10°-20°	373.6	9.9
20°-30°	560.7	14.9
30°-40°	668.4	17.8
40°-50°	688.5	18.3
50°-60°	613.6	16.3
60°-70°	442.1	11.8
70°-80°	231.2	6.2
80°-90°	47.8	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°	1065.4	28.4
0°-40°	1733.8	46.1
0°-60°	3035.9	80.8
0°-90°	3757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1384	1381	1376	1384	1383	131
15°	1318	1319	1319	1333	1331	372
25°	1195	1202	1212	1236	1240	551
35°	1026	1040	1066	1102	1110	642
45°	830	849	891	941	951	641
55°	626	646	700	732	728	561
65°	425	440	469	447	430	421
75°	229	241	226	196	184	243
85°	54	47	28	25	25	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1389.5	1386.2	1379.5	1387.8	1387.8
5°	1384.5	1381.1	1376.1	1384.5	1382.8
7.5°	1374.4	1371.1	1366.1	1376.1	1374.4
10°	1359.4	1357.7	1354.4	1364.4	1362.7
12.5°	1342.6	1341.0	1339.3	1349.3	1349.3
15°	1317.5	1319.2	1319.2	1332.6	1330.9
17.5°	1294.1	1295.8	1297.4	1314.2	1314.2
20°	1264.0	1265.6	1272.3	1290.7	1292.4
22.5°	1232.1	1233.8	1242.2	1264.0	1267.3
25°	1195.3	1202.0	1212.1	1235.5	1240.5
27.5°	1158.5	1163.5	1180.2	1207.0	1210.4
30°	1115.0	1125.0	1143.4	1173.6	1180.2
32.5°	1071.4	1083.1	1104.9	1138.4	1146.8
35°	1026.2	1039.6	1066.4	1101.6	1109.9
37.5°	979.4	991.1	1024.6	1061.4	1073.1
40°	932.5	944.2	981.0	1022.9	1036.3
42.5°	882.3	899.0	935.8	982.7	996.1
45°	830.4	848.8	890.6	940.8	950.9
47.5°	776.8	796.9	845.4	895.6	907.4
50°	729.9	748.3	796.9	845.4	853.8
52.5°	679.7	696.4	750.0	790.2	791.9
55°	626.1	646.2	699.8	731.6	728.2
57.5°	577.6	594.3	646.2	662.9	652.9
60°	525.7	540.7	592.6	594.3	579.2
62.5°	475.4	490.5	530.7	519.0	500.6
65°	425.2	440.3	468.8	447.0	430.2
67.5°	376.7	390.1	406.8	378.3	361.6
70°	324.8	343.2	344.9	311.4	294.6
72.5°	279.6	289.6	286.3	254.5	239.4
75°	229.4	241.1	226.0	195.9	184.2
77.5°	182.5	190.8	170.8	142.3	133.9
80°	135.6	140.6	117.2	95.4	90.4
82.5°	92.1	92.1	67.0	51.9	46.9
85°	53.6	46.9	28.5	25.1	25.1
87.5°	18.4	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)