

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: P275545

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-39-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3627.0 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

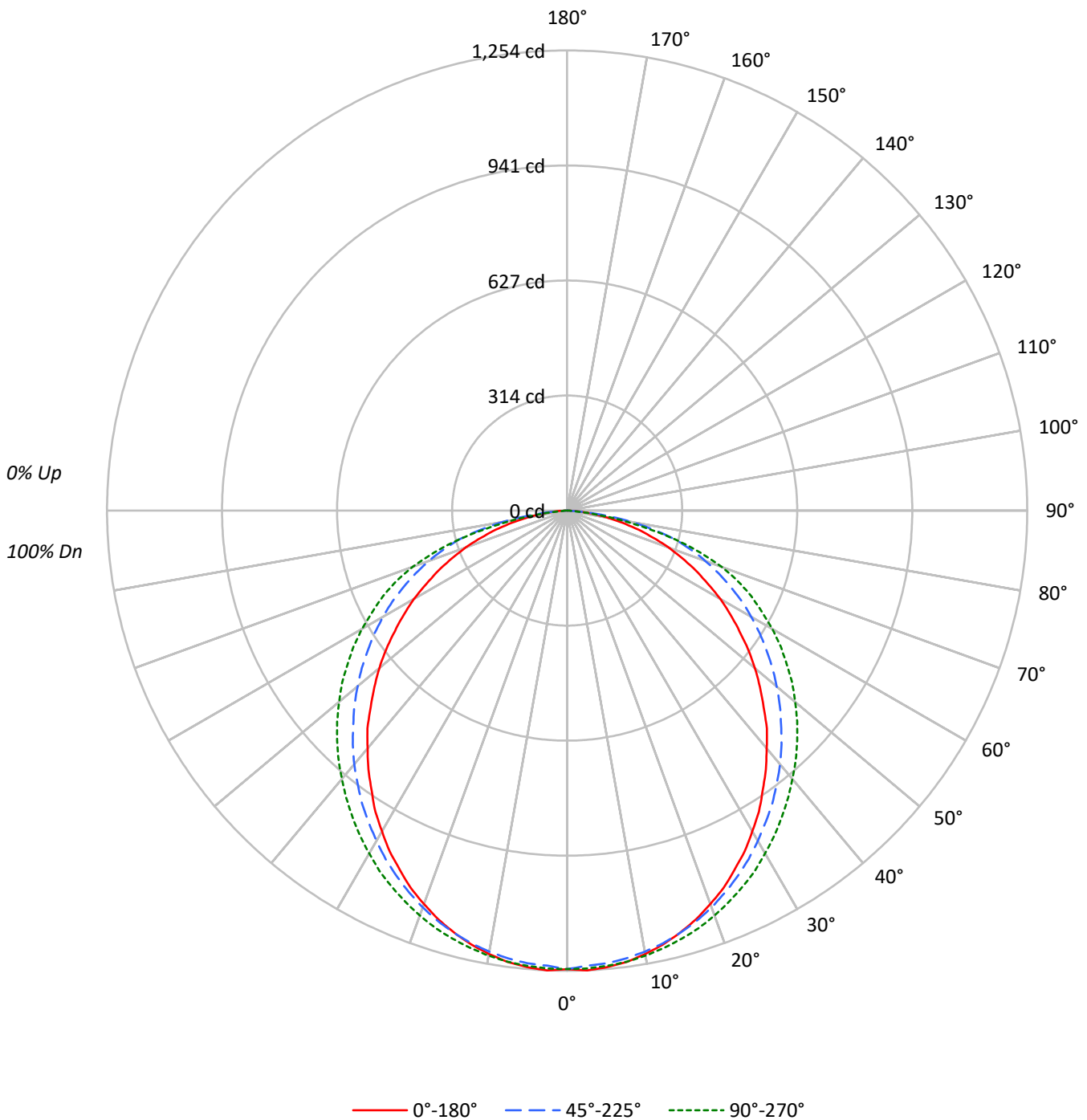
Input Watts (W): 31.899  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3362	3362	3362
5°	3373	3345	3364
10°	3352	3335	3366
15°	3317	3319	3364
20°	3268	3296	3363
25°	3206	3263	3359
30°	3136	3229	3352
35°	3052	3201	3350
40°	2971	3171	3355
45°	2881	3136	3373
50°	2797	3122	3396
55°	2690	3111	3426
60°	2594	3117	3474
65°	2462	3126	3528
70°	2310	3150	3525
75°	2094	3178	3187
80°	1717	2744	2269
85°	1272	1300	525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	3.3
10°-20°	337.8	9.3
20°-30°	508.8	14.0
30°-40°	610.6	16.8
40°-50°	636.4	17.5
50°-60°	589.1	16.2
60°-70°	476.0	13.1
70°-80°	290.2	8.0
80°-90°	59.9	1.7
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°	964.8	26.6
0°-40°	1575.3	43.4
0°-60°	2800.8	77.2
0°-90°	3627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1249	1246	1238	1247	1246	119
15°	1190	1191	1191	1208	1208	336
25°	1080	1086	1099	1127	1131	498
35°	929	944	974	1010	1020	582
45°	757	780	824	870	886	585
55°	573	603	663	715	730	514
65°	387	425	491	540	554	382
75°	201	246	306	311	306	212
85°	41	62	42	24	17	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1249.5	1249.5	1249.5	1249.5	1249.5
2.5°	1254.4	1250.3	1241.4	1250.3	1248.7
5°	1248.7	1245.5	1238.2	1247.1	1245.5
7.5°	1240.6	1237.4	1230.9	1241.4	1239.8
10°	1226.9	1225.3	1220.4	1232.5	1231.7
12.5°	1210.7	1209.9	1207.5	1221.2	1220.4
15°	1190.5	1191.3	1191.3	1207.5	1207.5
17.5°	1167.8	1169.4	1172.7	1190.5	1192.9
20°	1141.1	1144.4	1150.8	1171.1	1174.3
22.5°	1113.6	1116.1	1125.8	1150.0	1153.3
25°	1079.7	1086.1	1099.1	1126.6	1131.4
27.5°	1047.3	1053.0	1070.8	1099.1	1107.2
30°	1009.3	1018.2	1039.2	1070.0	1078.9
32.5°	972.9	982.6	1006.9	1042.5	1050.6
35°	929.2	943.8	974.5	1010.1	1019.8
37.5°	889.6	903.4	938.1	977.0	988.3
40°	845.9	862.9	902.6	943.8	955.1
42.5°	805.5	821.7	864.5	906.6	922.0
45°	757.0	779.6	824.1	870.2	886.4
47.5°	712.5	735.2	786.1	835.4	850.0
50°	668.0	692.3	745.7	796.6	811.2
52.5°	621.9	647.8	705.2	756.2	773.2
55°	573.4	603.3	663.2	714.9	730.3
57.5°	527.3	558.0	621.9	674.5	689.9
60°	482.0	513.6	579.1	629.2	645.4
62.5°	431.9	469.1	537.0	586.3	598.5
65°	386.6	424.6	490.9	540.2	554.0
67.5°	338.9	380.1	446.4	491.7	504.7
70°	293.6	336.4	400.3	442.4	448.0
72.5°	245.1	288.7	353.4	380.1	380.1
75°	201.4	245.9	305.7	310.6	306.5
77.5°	153.7	203.0	241.8	232.1	222.4
80°	110.8	159.3	177.1	159.3	146.4
82.5°	74.4	115.7	106.8	84.9	75.2
85°	41.2	61.5	42.1	23.5	17.0
87.5°	15.4	13.7	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)