

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: P275717

Luminaire Tested: **14CZ2-44-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-S-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3717.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

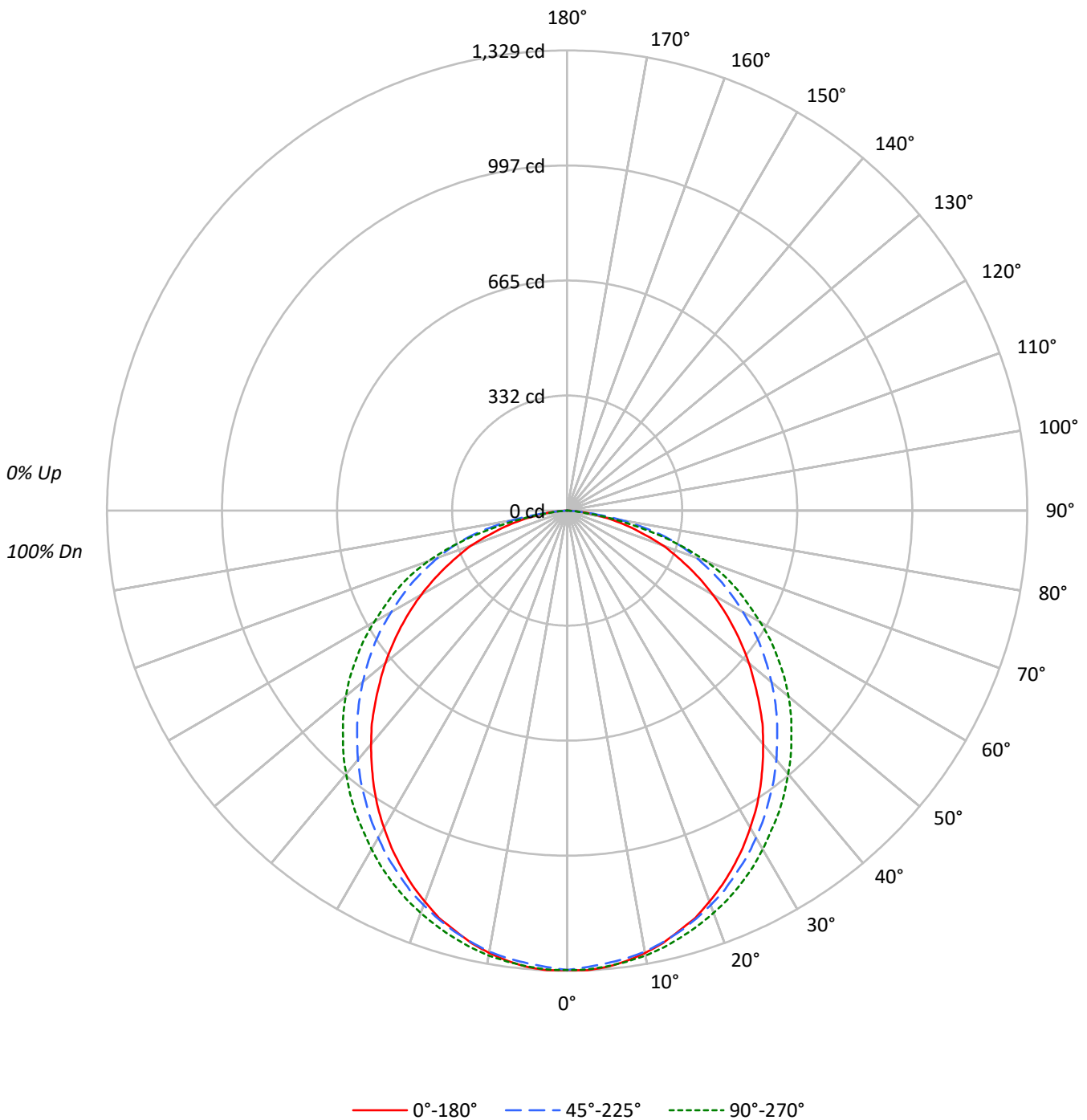
Input Watts (W): 35.712  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	3571	3571	3571
5°	3574	3545	3569
10°	3545	3535	3565
15°	3496	3507	3553
20°	3441	3472	3541
25°	3371	3431	3529
30°	3287	3390	3510
35°	3197	3342	3499
40°	3094	3302	3489
45°	2981	3261	3486
50°	2870	3225	3495
55°	2750	3199	3484
60°	2618	3154	3462
65°	2464	3145	3462
70°	2320	3117	3364
75°	2012	3046	2874
80°	1627	2456	1914
85°	1081	852	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.3	3.4
10°-20°	356.5	9.6
20°-30°	534.8	14.4
30°-40°	638.0	17.2
40°-50°	659.6	17.7
50°-60°	602.2	16.2
60°-70°	473.9	12.7
70°-80°	275.9	7.4
80°-90°	50.8	1.4
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°	1016.7	27.4
0°-40°	1654.7	44.5
0°-60°	2916.4	78.5
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1323	1320	1312	1323	1321	125
15°	1255	1257	1259	1275	1275	354
25°	1135	1141	1156	1183	1189	523
35°	973	986	1017	1056	1065	608
45°	783	809	857	905	916	605
55°	586	617	682	732	743	524
65°	387	428	494	533	544	384
75°	194	240	293	288	276	206
85°	35	50	28	22	18	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1328.8	1325.1	1319.5	1328.8	1326.9
5°	1323.2	1319.5	1312.2	1323.2	1321.4
7.5°	1312.2	1308.5	1304.8	1315.8	1314.0
10°	1297.4	1295.6	1293.7	1306.6	1304.8
12.5°	1279.0	1279.0	1277.1	1291.9	1291.9
15°	1255.0	1256.9	1258.7	1275.3	1275.3
17.5°	1232.9	1231.1	1236.6	1255.0	1256.9
20°	1201.6	1205.3	1212.6	1234.8	1236.6
22.5°	1170.3	1173.9	1186.8	1209.0	1214.5
25°	1135.2	1140.8	1155.5	1183.2	1188.7
27.5°	1098.4	1105.8	1126.0	1155.5	1161.0
30°	1057.8	1068.9	1091.0	1124.2	1129.7
32.5°	1017.3	1028.4	1056.0	1089.2	1096.5
35°	973.1	986.0	1017.3	1056.0	1065.2
37.5°	927.0	943.6	980.4	1019.1	1030.2
40°	880.9	899.3	939.9	980.4	993.3
42.5°	834.8	853.3	897.5	943.6	956.5
45°	783.2	809.0	857.0	904.9	915.9
47.5°	733.5	761.1	814.6	862.5	877.2
50°	685.6	713.2	770.3	820.1	834.8
52.5°	635.8	665.3	726.1	777.7	790.6
55°	586.1	617.4	681.9	731.6	742.7
57.5°	536.3	569.5	635.8	683.7	696.6
60°	486.5	521.5	586.1	634.0	643.2
62.5°	436.8	473.6	540.0	582.4	591.6
65°	387.0	427.6	493.9	532.6	543.7
67.5°	339.1	379.6	444.1	481.0	490.2
70°	294.9	331.7	396.2	423.9	427.6
72.5°	239.6	285.7	348.3	363.1	353.8
75°	193.5	239.6	293.0	287.5	276.4
77.5°	147.4	193.5	228.5	210.1	195.4
80°	105.0	151.1	158.5	130.8	123.5
82.5°	68.2	105.0	88.5	68.2	55.3
85°	35.0	49.8	27.6	22.1	18.4
87.5°	11.1	7.4	3.7	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)