

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: P275705

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275705  
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: 14CZ2-35-S-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3343.0 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

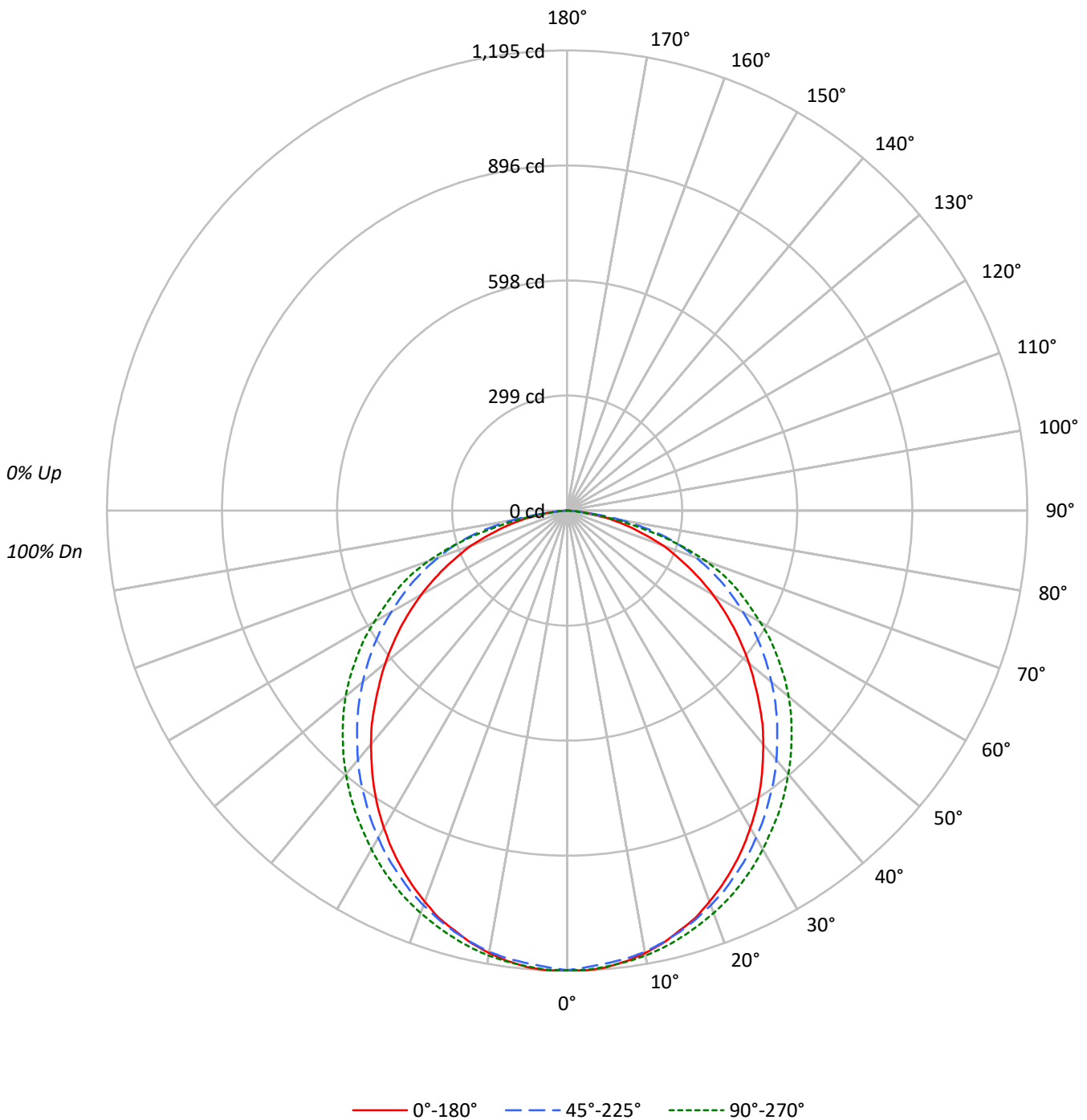
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3211	3211	3211
5°	3215	3188	3210
10°	3189	3180	3207
15°	3145	3154	3195
20°	3095	3123	3185
25°	3032	3086	3174
30°	2956	3049	3157
35°	2875	3006	3147
40°	2783	2969	3138
45°	2681	2933	3135
50°	2581	2900	3143
55°	2473	2877	3134
60°	2355	2837	3113
65°	2216	2828	3114
70°	2087	2804	3025
75°	1809	2740	2585
80°	1464	2208	1722
85°	973	769	513



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.7	3.4
10°-20°	320.7	9.6
20°-30°	481.0	14.4
30°-40°	573.8	17.2
40°-50°	593.2	17.7
50°-60°	541.6	16.2
60°-70°	426.2	12.7
70°-80°	248.1	7.4
80°-90°	45.7	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°	914.4	27.4
0°-40°	1488.2	44.5
0°-60°	2623.0	78.5
0°-90°	3343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1190	1187	1180	1190	1188	113
15°	1129	1130	1132	1147	1147	319
25°	1021	1026	1039	1064	1069	470
35°	875	887	915	950	958	547
45°	704	728	771	814	824	544
55°	527	555	613	658	668	471
65°	348	384	444	479	489	346
75°	174	216	264	259	249	185
85°	32	45	25	20	17	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1193.4	1193.4	1193.4	1193.4	1193.4
2.5°	1195.1	1191.7	1186.8	1195.1	1193.4
5°	1190.1	1186.8	1180.1	1190.1	1188.4
7.5°	1180.1	1176.8	1173.5	1183.5	1181.8
10°	1166.9	1165.2	1163.6	1175.2	1173.5
12.5°	1150.3	1150.3	1148.6	1161.9	1161.9
15°	1128.8	1130.4	1132.1	1147.0	1147.0
17.5°	1108.9	1107.2	1112.2	1128.8	1130.4
20°	1080.7	1084.0	1090.6	1110.5	1112.2
22.5°	1052.5	1055.8	1067.4	1087.3	1092.3
25°	1021.0	1026.0	1039.2	1064.1	1069.1
27.5°	987.9	994.5	1012.7	1039.2	1044.2
30°	951.4	961.3	981.2	1011.1	1016.0
32.5°	914.9	924.9	949.7	979.6	986.2
35°	875.2	886.8	914.9	949.7	958.0
37.5°	833.7	848.6	881.8	916.6	926.5
40°	792.3	808.9	845.3	881.8	893.4
42.5°	750.8	767.4	807.2	848.6	860.2
45°	704.4	727.6	770.7	813.8	823.8
47.5°	659.7	684.5	732.6	775.7	789.0
50°	616.6	641.5	692.8	737.6	750.8
52.5°	571.8	598.4	653.1	699.5	711.1
55°	527.1	555.3	613.3	658.0	668.0
57.5°	482.3	512.2	571.8	614.9	626.5
60°	437.6	469.1	527.1	570.2	578.5
62.5°	392.8	426.0	485.6	523.8	532.1
65°	348.1	384.5	444.2	479.0	489.0
67.5°	305.0	341.4	399.5	432.6	440.9
70°	265.2	298.3	356.4	381.2	384.5
72.5°	215.5	256.9	313.3	326.5	318.2
75°	174.0	215.5	263.5	258.6	248.6
77.5°	132.6	174.0	205.5	189.0	175.7
80°	94.5	135.9	142.5	117.7	111.1
82.5°	61.3	94.5	79.6	61.3	49.7
85°	31.5	44.8	24.9	19.9	16.6
87.5°	9.9	6.6	3.3	3.3	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)