

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: P275708

Luminaire Tested: **14CZ2-39-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275708
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: 14CZ2-39-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: 3326.0 lumens
Efficiency: N/A
Efficacy: 107.1 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

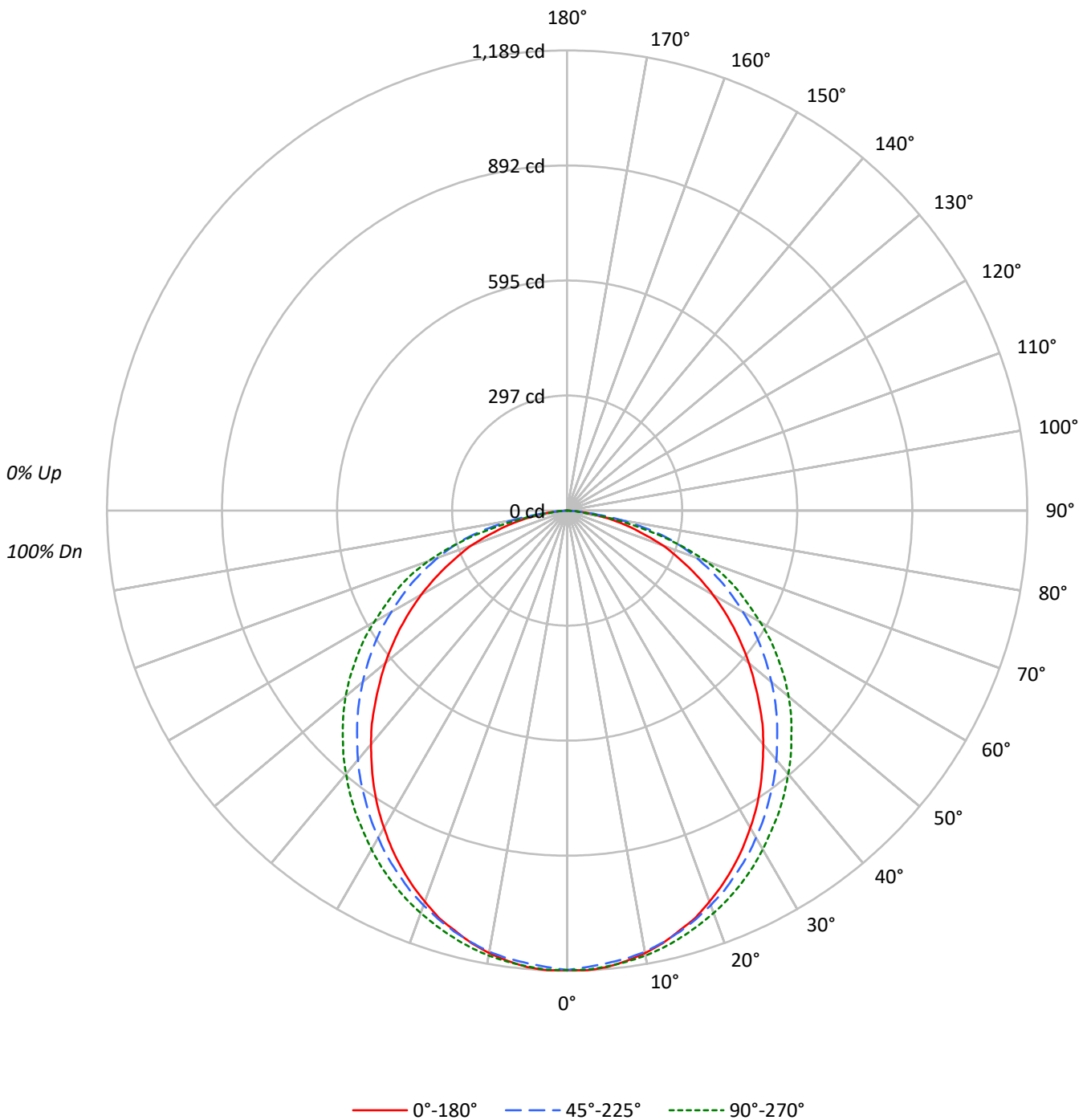
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3195	3195	3195
5°	3198	3172	3194
10°	3172	3163	3190
15°	3129	3138	3179
20°	3079	3107	3169
25°	3016	3070	3158
30°	2941	3033	3141
35°	2860	2990	3131
40°	2769	2954	3122
45°	2667	2918	3119
50°	2568	2886	3127
55°	2460	2863	3118
60°	2343	2822	3097
65°	2205	2814	3098
70°	2076	2789	3010
75°	1801	2726	2572
80°	1457	2197	1712
85°	966	763	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.4
10°-20°	319.0	9.6
20°-30°	478.6	14.4
30°-40°	570.9	17.2
40°-50°	590.2	17.7
50°-60°	538.8	16.2
60°-70°	424.0	12.7
70°-80°	246.9	7.4
80°-90°	45.5	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°	909.7	27.4
0°-40°	1480.6	44.5
0°-60°	2609.6	78.5
0°-90°	3326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1184	1181	1174	1184	1182	112
15°	1123	1125	1126	1141	1141	317
25°	1016	1021	1034	1059	1064	468
35°	871	882	910	945	953	544
45°	701	724	767	810	820	541
55°	524	552	610	655	665	469
65°	346	383	442	477	486	344
75°	173	214	262	257	247	184
85°	31	44	25	20	16	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.3	1187.3	1187.3	1187.3	1187.3
2.5°	1189.0	1185.7	1180.7	1189.0	1187.3
5°	1184.0	1180.7	1174.1	1184.0	1182.4
7.5°	1174.1	1170.8	1167.5	1177.4	1175.8
10°	1160.9	1159.3	1157.6	1169.2	1167.5
12.5°	1144.5	1144.5	1142.8	1156.0	1156.0
15°	1123.0	1124.7	1126.3	1141.2	1141.2
17.5°	1103.2	1101.6	1106.5	1123.0	1124.7
20°	1075.2	1078.5	1085.1	1104.9	1106.5
22.5°	1047.2	1050.5	1062.0	1081.8	1086.7
25°	1015.8	1020.8	1034.0	1058.7	1063.6
27.5°	982.8	989.4	1007.6	1034.0	1038.9
30°	946.6	956.5	976.2	1005.9	1010.9
32.5°	910.3	920.2	944.9	974.6	981.2
35°	870.7	882.2	910.3	944.9	953.2
37.5°	829.5	844.3	877.3	911.9	921.8
40°	788.3	804.7	841.0	877.3	888.8
42.5°	747.0	763.5	803.1	844.3	855.9
45°	700.9	723.9	766.8	809.7	819.6
47.5°	656.3	681.1	728.9	771.8	785.0
50°	613.5	638.2	689.3	733.8	747.0
52.5°	568.9	595.3	649.7	695.9	707.4
55°	524.4	552.4	610.2	654.7	664.6
57.5°	479.9	509.6	568.9	611.8	623.3
60°	435.4	466.7	524.4	567.3	575.5
62.5°	390.8	423.8	483.2	521.1	529.3
65°	346.3	382.6	441.9	476.6	486.5
67.5°	303.4	339.7	397.4	430.4	438.7
70°	263.9	296.8	354.5	379.3	382.6
72.5°	214.4	255.6	311.7	324.9	316.6
75°	173.2	214.4	262.2	257.3	247.4
77.5°	131.9	173.2	204.5	188.0	174.8
80°	94.0	135.2	141.8	117.1	110.5
82.5°	61.0	94.0	79.2	61.0	49.5
85°	31.3	44.5	24.7	19.8	16.5
87.5°	9.9	6.6	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)