

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: P275547

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275547
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: 14CZ2-44-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

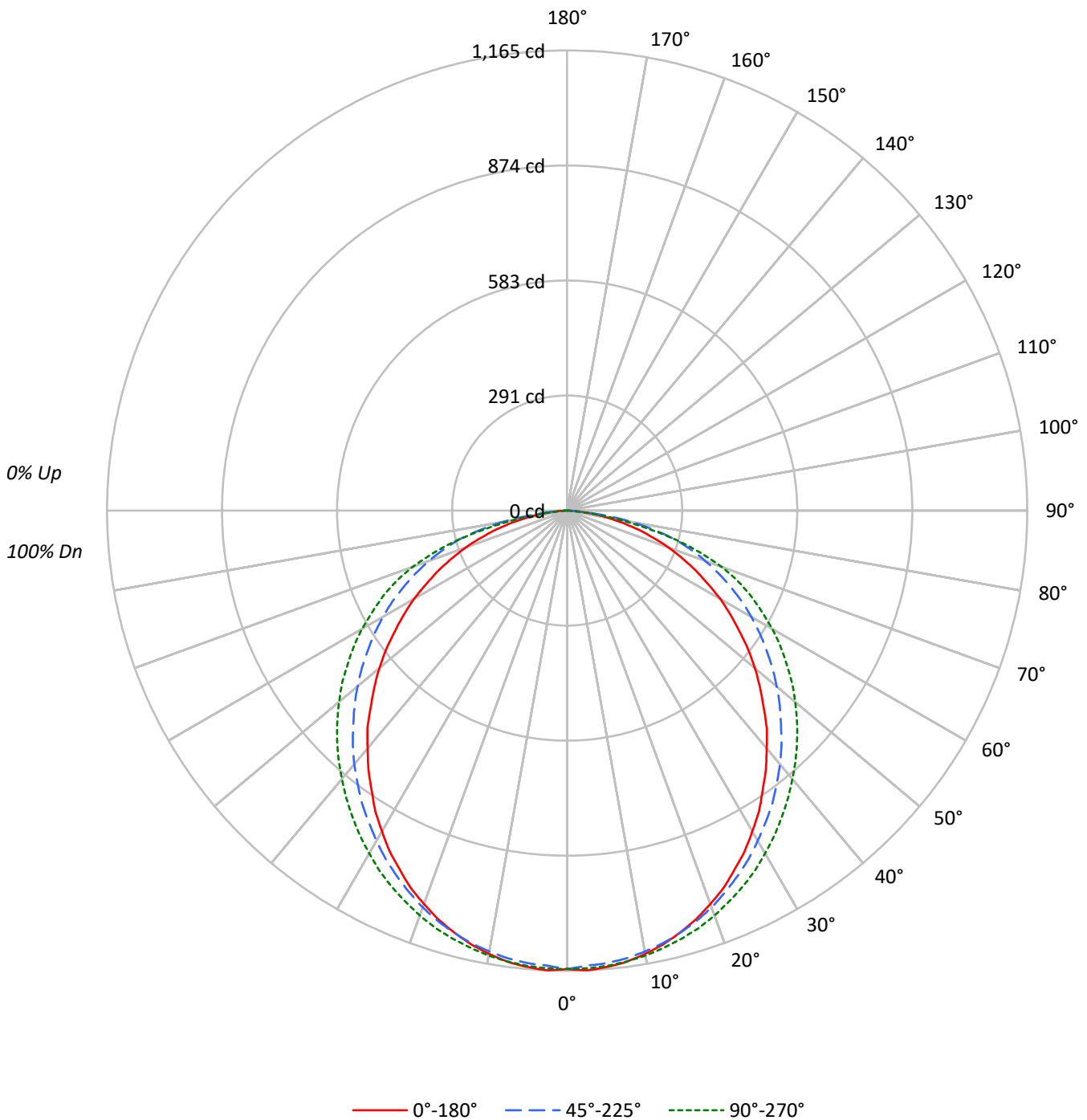
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3123	3123	3123
5°	3133	3107	3125
10°	3114	3098	3126
15°	3081	3083	3125
20°	3036	3061	3124
25°	2978	3031	3121
30°	2913	2999	3114
35°	2835	2974	3112
40°	2760	2945	3117
45°	2676	2913	3133
50°	2598	2900	3154
55°	2499	2890	3182
60°	2410	2895	3226
65°	2287	2904	3277
70°	2146	2926	3275
75°	1945	2953	2960
80°	1595	2549	2108
85°	1183	1207	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.3
10°-20°	313.7	9.3
20°-30°	472.6	14.0
30°-40°	567.1	16.8
40°-50°	591.1	17.5
50°-60°	547.2	16.2
60°-70°	442.1	13.1
70°-80°	269.6	8.0
80°-90°	55.7	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°	896.2	26.6
0°-40°	1463.3	43.4
0°-60°	2601.6	77.2
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1160	1157	1150	1158	1157	110
15°	1106	1106	1106	1122	1122	312
25°	1003	1009	1021	1046	1051	462
35°	863	877	905	938	947	541
45°	703	724	766	808	823	543
55°	533	560	616	664	678	477
65°	359	394	456	502	515	355
75°	187	228	284	288	285	196
85°	38	57	39	22	16	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.6	1160.6	1160.6	1160.6	1160.6
2.5°	1165.1	1161.4	1153.1	1161.4	1159.9
5°	1159.9	1156.9	1150.1	1158.4	1156.9
7.5°	1152.4	1149.4	1143.4	1153.1	1151.6
10°	1139.6	1138.1	1133.6	1144.9	1144.1
12.5°	1124.6	1123.8	1121.6	1134.3	1133.6
15°	1105.8	1106.5	1106.5	1121.6	1121.6
17.5°	1084.8	1086.3	1089.3	1105.8	1108.0
20°	1060.0	1063.0	1069.0	1087.8	1090.8
22.5°	1034.4	1036.7	1045.7	1068.2	1071.2
25°	1002.9	1008.9	1020.9	1046.4	1051.0
27.5°	972.8	978.1	994.6	1020.9	1028.4
30°	937.5	945.8	965.3	993.9	1002.1
32.5°	903.7	912.7	935.3	968.3	975.8
35°	863.1	876.7	905.2	938.3	947.3
37.5°	826.3	839.1	871.4	907.5	918.0
40°	785.8	801.5	838.4	876.7	887.2
42.5°	748.2	763.2	803.1	842.1	856.4
45°	703.1	724.2	765.5	808.3	823.3
47.5°	661.8	682.9	730.2	776.0	789.5
50°	620.5	643.0	692.6	739.9	753.5
52.5°	577.7	601.7	655.1	702.4	718.2
55°	532.6	560.4	616.0	664.1	678.3
57.5°	489.8	518.3	577.7	626.5	640.8
60°	447.7	477.0	537.9	584.4	599.5
62.5°	401.2	435.7	498.8	544.6	555.9
65°	359.1	394.4	456.0	501.8	514.6
67.5°	314.8	353.1	414.7	456.7	468.8
70°	272.7	312.5	371.9	410.9	416.2
72.5°	227.6	268.2	328.3	353.1	353.1
75°	187.1	228.4	284.0	288.5	284.7
77.5°	142.7	188.6	224.6	215.6	206.6
80°	102.9	148.0	164.5	148.0	136.0
82.5°	69.1	107.4	99.2	78.9	69.9
85°	38.3	57.1	39.1	21.8	15.8
87.5°	14.3	12.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)