

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: P258863

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3485.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

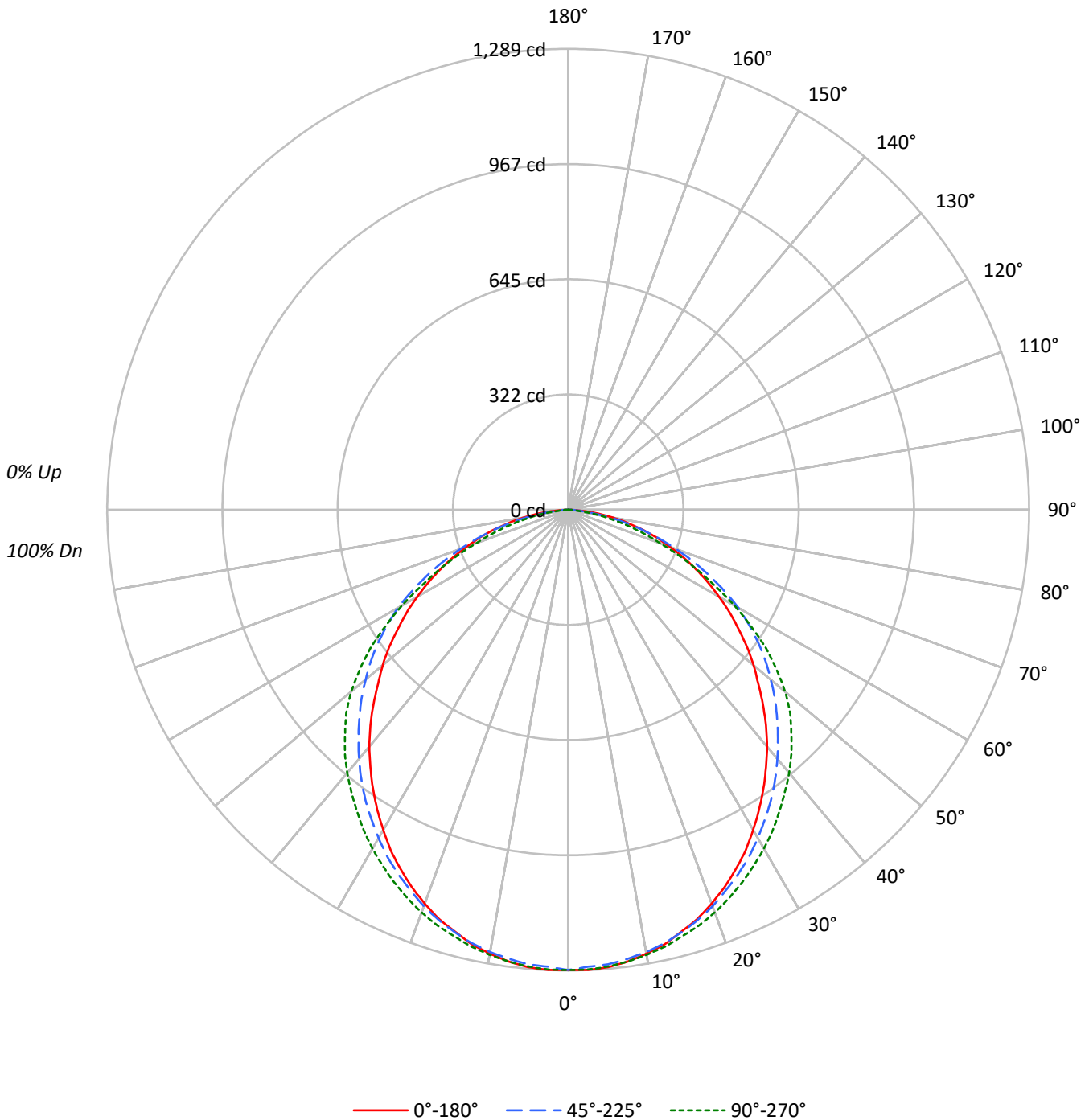
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3464	3464	3464
5°	3469	3448	3465
10°	3446	3433	3454
15°	3405	3409	3439
20°	3357	3380	3433
25°	3292	3338	3417
30°	3214	3296	3402
35°	3127	3250	3382
40°	3039	3197	3377
45°	2931	3144	3357
50°	2835	3095	3316
55°	2725	3045	3169
60°	2624	2958	2892
65°	2511	2769	2541
70°	2371	2517	2150
75°	2211	2179	1776
80°	1949	1684	1300
85°	1535	815	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.5
10°-20°	346.5	9.9
20°-30°	520.1	14.9
30°-40°	620.0	17.8
40°-50°	638.6	18.3
50°-60°	569.2	16.3
60°-70°	410.1	11.8
70°-80°	214.5	6.2
80°-90°	44.4	1.3
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°	988.3	28.4
0°-40°	1608.3	46.1
0°-60°	2816.1	80.8
0°-90°	3485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1284	1281	1276	1284	1283	122
15°	1222	1224	1224	1236	1235	345
25°	1109	1115	1124	1146	1151	511
35°	952	964	989	1022	1030	595
45°	770	787	826	873	882	594
55°	581	599	649	679	676	521
65°	394	408	435	415	399	391
75°	213	224	210	182	171	225
85°	50	44	26	23	23	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.4	1287.4	1287.4	1287.4	1287.4
2.5°	1288.9	1285.8	1279.6	1287.4	1287.4
5°	1284.3	1281.1	1276.5	1284.3	1282.7
7.5°	1274.9	1271.8	1267.2	1276.5	1274.9
10°	1261.0	1259.4	1256.3	1265.6	1264.1
12.5°	1245.4	1243.9	1242.3	1251.6	1251.6
15°	1222.1	1223.7	1223.7	1236.1	1234.6
17.5°	1200.4	1202.0	1203.5	1219.0	1219.0
20°	1172.4	1174.0	1180.2	1197.3	1198.8
22.5°	1142.9	1144.5	1152.3	1172.4	1175.6
25°	1108.8	1115.0	1124.3	1146.0	1150.7
27.5°	1074.6	1079.3	1094.8	1119.6	1122.8
30°	1034.2	1043.6	1060.6	1088.6	1094.8
32.5°	993.9	1004.7	1024.9	1056.0	1063.7
35°	951.9	964.4	989.2	1021.8	1029.6
37.5°	908.5	919.3	950.4	984.5	995.4
40°	865.0	875.8	910.0	948.8	961.2
42.5°	818.4	833.9	868.1	911.6	924.0
45°	770.2	787.3	826.1	872.7	882.1
47.5°	720.5	739.2	784.2	830.8	841.7
50°	677.1	694.1	739.2	784.2	792.0
52.5°	630.5	646.0	695.7	733.0	734.5
55°	580.8	599.4	649.1	678.6	675.5
57.5°	535.8	551.3	599.4	615.0	605.6
60°	487.6	501.6	549.7	551.3	537.3
62.5°	441.0	455.0	492.3	481.4	464.3
65°	394.4	408.4	434.8	414.6	399.1
67.5°	349.4	361.8	377.4	351.0	335.4
70°	301.3	318.3	319.9	288.8	273.3
72.5°	259.3	268.7	265.5	236.0	222.1
75°	212.7	223.6	209.6	181.7	170.8
77.5°	169.3	177.0	158.4	132.0	124.2
80°	125.8	130.4	108.7	88.5	83.9
82.5°	85.4	85.4	62.1	48.1	43.5
85°	49.7	43.5	26.4	23.3	23.3
87.5°	17.1	10.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)