

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: P258557

Luminaire Tested: **14CZ-LD5-39-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-UNV-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3901.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

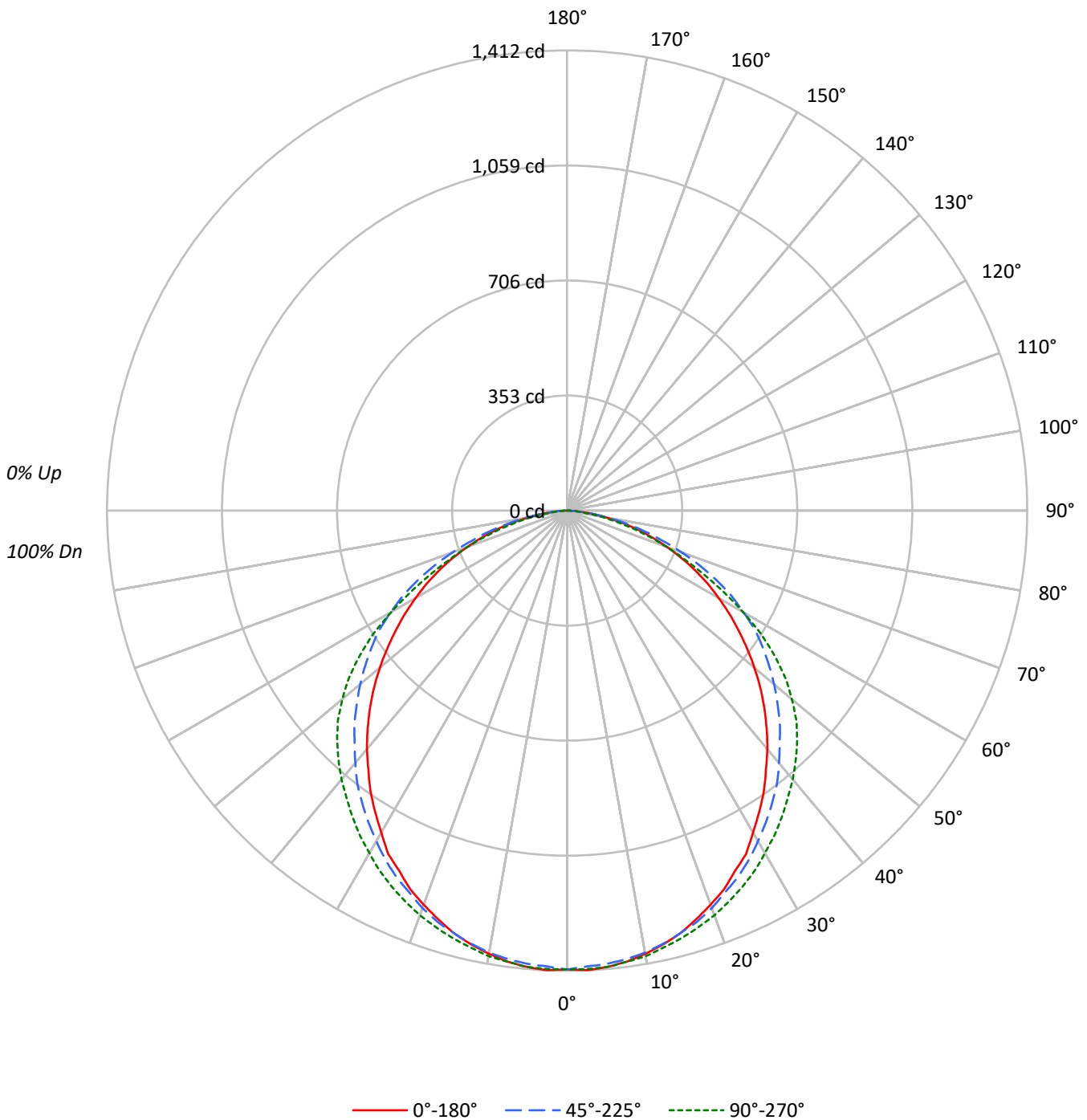
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3788	3788	3788
5°	3797	3771	3797
10°	3773	3763	3794
15°	3740	3740	3783
20°	3684	3717	3783
25°	3620	3683	3780
30°	3544	3639	3771
35°	3456	3601	3772
40°	3358	3554	3783
45°	3257	3513	3798
50°	3140	3470	3768
55°	3013	3438	3645
60°	2888	3364	3353
65°	2755	3221	2939
70°	2557	2936	2542
75°	2320	2560	2099
80°	1847	2027	1550
85°	1306	1127	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.4
10°-20°	380.5	9.8
20°-30°	573.7	14.7
30°-40°	687.7	17.6
40°-50°	713.7	18.3
50°-60°	643.7	16.5
60°-70°	469.6	12.0
70°-80°	246.4	6.3
80°-90°	52.6	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°	1087.4	27.9
0°-40°	1775.1	45.5
0°-60°	3132.5	80.3
0°-90°	3901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1406	1402	1396	1406	1406	133
15°	1342	1342	1342	1358	1358	378
25°	1219	1225	1240	1267	1273	563
35°	1052	1064	1096	1137	1148	657
45°	856	873	923	979	998	660
55°	642	665	733	781	777	575
65°	433	458	506	487	462	428
75°	223	254	246	214	202	234
85°	42	52	36	31	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1411.6	1407.8	1400.1	1407.8	1407.8
5°	1405.8	1402.0	1396.2	1405.8	1405.8
7.5°	1396.2	1392.4	1388.5	1398.1	1396.2
10°	1380.8	1378.9	1377.0	1388.5	1388.5
12.5°	1363.5	1363.5	1361.6	1375.1	1373.1
15°	1342.4	1342.4	1342.4	1357.8	1357.8
17.5°	1315.4	1319.3	1323.1	1340.4	1340.4
20°	1286.6	1290.4	1298.1	1319.3	1321.2
22.5°	1257.8	1259.7	1267.4	1292.4	1298.1
25°	1219.3	1225.1	1240.4	1267.4	1273.1
27.5°	1188.5	1190.4	1207.8	1238.5	1246.2
30°	1140.4	1153.9	1171.2	1205.8	1213.5
32.5°	1096.2	1107.7	1134.7	1171.2	1182.7
35°	1052.0	1063.5	1096.2	1136.6	1148.1
37.5°	1002.0	1019.3	1057.7	1098.1	1111.6
40°	955.8	971.2	1011.6	1061.6	1077.0
42.5°	905.8	921.2	965.4	1021.2	1038.5
45°	855.8	873.1	923.1	978.9	998.1
47.5°	803.9	823.1	875.0	936.6	953.9
50°	750.0	771.2	828.9	892.4	900.0
52.5°	696.2	719.3	780.8	836.6	844.3
55°	642.3	665.4	732.7	780.8	777.0
57.5°	590.4	615.4	684.6	709.6	705.8
60°	536.6	563.5	625.0	636.6	623.1
62.5°	486.6	511.6	569.3	559.6	542.3
65°	432.7	457.7	505.8	486.6	461.6
67.5°	378.9	409.6	440.4	407.7	388.5
70°	325.0	359.6	373.1	340.4	323.1
72.5°	273.1	309.6	305.8	273.1	261.6
75°	223.1	253.9	246.2	213.5	201.9
77.5°	169.2	203.9	186.5	159.6	150.0
80°	119.2	150.0	130.8	107.7	100.0
82.5°	78.8	100.0	80.8	63.5	57.7
85°	42.3	51.9	36.5	30.8	28.8
87.5°	17.3	15.4	13.5	13.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)