

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: P258909

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1514.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

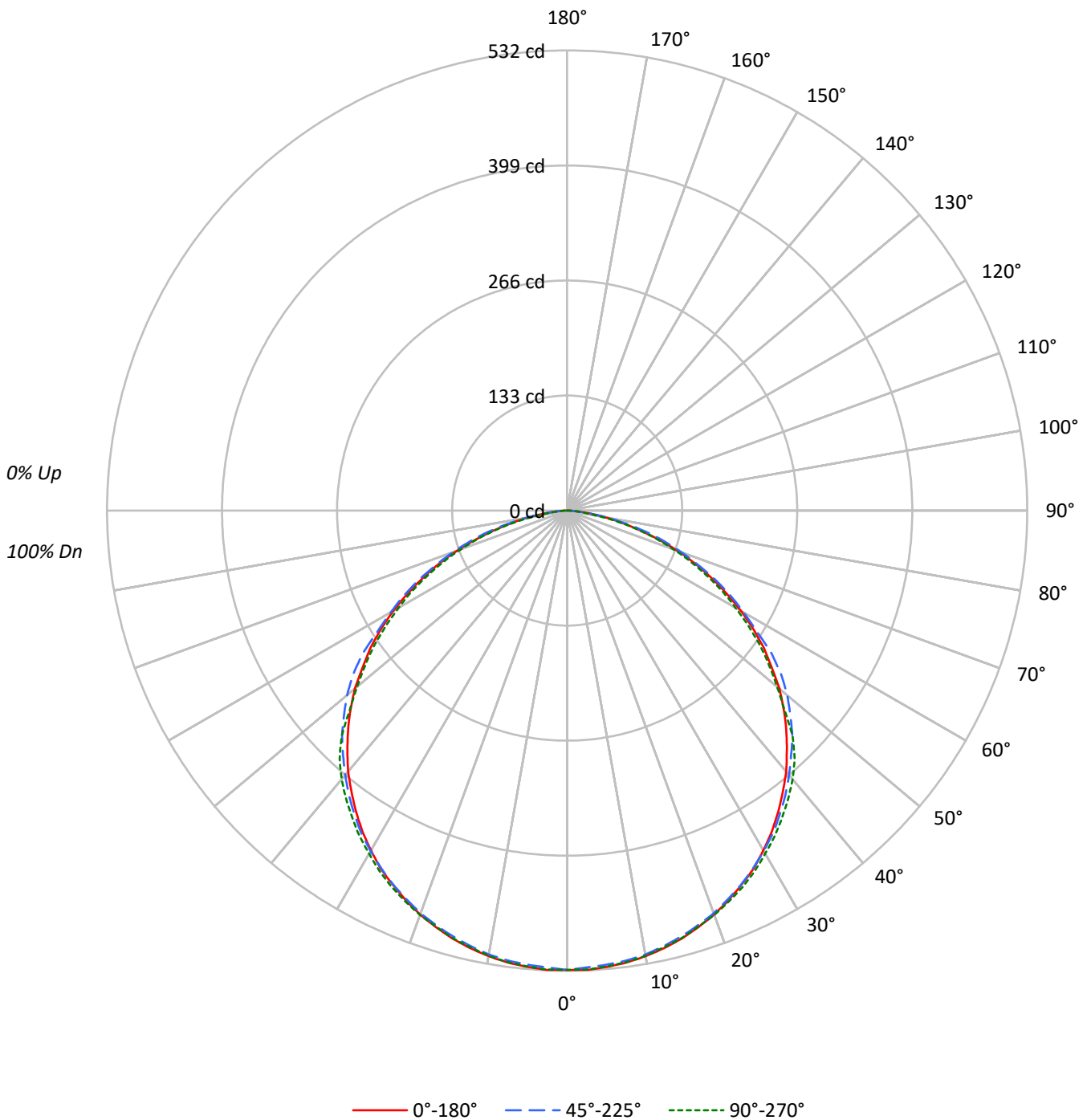
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1429	1429	1429
5°	1430	1424	1429
10°	1429	1424	1428
15°	1427	1420	1426
20°	1423	1419	1424
25°	1417	1415	1425
30°	1409	1412	1423
35°	1397	1409	1423
40°	1383	1402	1425
45°	1364	1401	1403
50°	1341	1390	1326
55°	1303	1354	1278
60°	1248	1267	1211
65°	1169	1200	1137
70°	1064	1106	1029
75°	888	970	872
80°	704	742	604
85°	457	395	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.3
10°-20°	144.4	9.5
20°-30°	220.4	14.6
30°-40°	268.7	17.7
40°-50°	281.3	18.6
50°-60°	250.3	16.5
60°-70°	184.7	12.2
70°-80°	95.4	6.3
80°-90°	18.5	1.2
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°	415.0	27.4
0°-40°	683.7	45.2
0°-60°	1215.4	80.3
0°-90°	1514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	530	529	527	529	529	50
15°	512	512	510	512	512	145
25°	477	477	477	480	480	220
35°	425	426	429	434	433	266
45°	358	361	368	372	369	276
55°	278	284	289	276	272	248
65°	184	196	188	182	179	182
75°	85	94	93	86	84	92
85°	15	16	13	12	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.0	531.0	531.0	531.0	531.0
2.5°	531.5	531.0	528.5	531.0	531.0
5°	529.5	529.0	527.0	529.0	529.0
7.5°	527.0	526.5	524.6	526.5	526.5
10°	523.1	522.6	521.1	523.1	522.6
12.5°	518.1	518.1	515.7	518.1	517.1
15°	512.2	511.7	509.7	511.7	511.7
17.5°	504.8	504.3	502.8	505.3	504.3
20°	496.9	496.4	495.4	497.9	497.4
22.5°	487.5	487.5	486.1	489.0	489.0
25°	477.2	477.2	476.7	480.1	480.1
27.5°	466.8	465.8	465.8	469.3	469.8
30°	453.5	453.5	454.5	458.4	457.9
32.5°	440.2	440.7	442.6	446.1	446.6
35°	425.4	425.9	428.8	433.8	433.3
37.5°	409.6	411.1	414.5	419.9	419.9
40°	393.8	394.8	399.2	405.1	405.6
42.5°	376.0	378.5	383.4	390.3	389.3
45°	358.3	360.7	368.1	371.6	368.6
47.5°	339.5	342.5	349.9	350.4	340.5
50°	320.3	323.7	332.1	322.2	316.8
52.5°	298.1	304.5	311.9	298.1	294.6
55°	277.8	283.7	288.7	276.3	272.4
57.5°	255.1	263.0	259.6	253.6	248.7
60°	231.9	240.3	235.4	229.5	225.0
62.5°	208.2	217.6	212.7	206.8	202.8
65°	183.6	196.4	188.5	182.1	178.6
67.5°	160.4	172.7	163.3	158.4	154.9
70°	135.2	145.6	140.6	134.2	130.8
72.5°	110.5	118.4	117.0	110.0	107.6
75°	85.4	94.3	93.3	85.9	83.9
77.5°	64.2	72.5	69.6	63.7	61.2
80°	45.4	50.8	47.9	41.0	39.0
82.5°	27.6	32.1	27.1	23.2	21.2
85°	14.8	16.3	12.8	11.8	11.3
87.5°	5.4	5.4	5.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)