

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: P258904

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258904
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-LD5-20-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: 1298.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

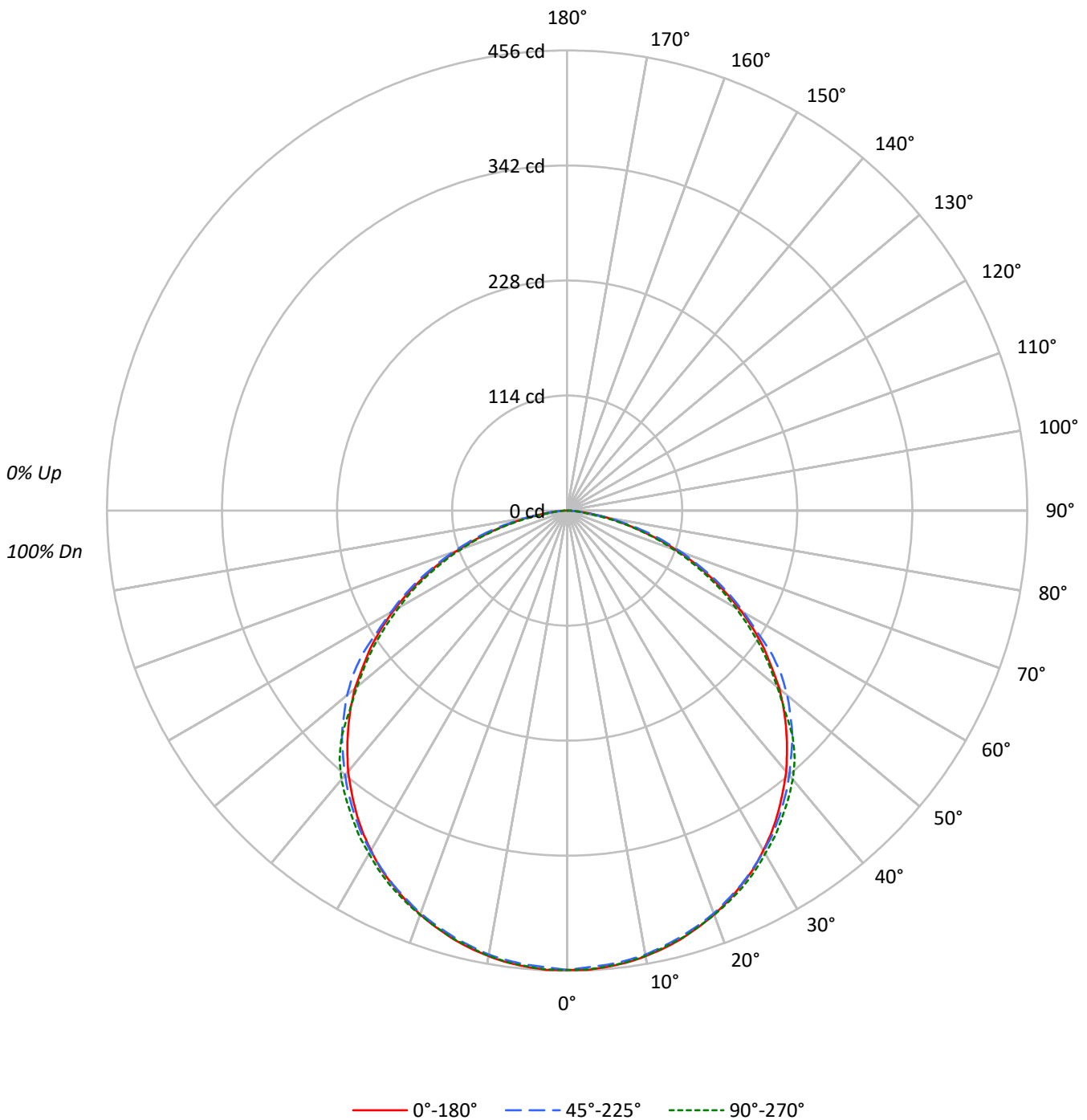
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1225	1225	1225
5°	1226	1220	1225
10°	1225	1221	1224
15°	1223	1217	1222
20°	1220	1216	1221
25°	1215	1213	1222
30°	1208	1211	1220
35°	1198	1208	1220
40°	1186	1202	1222
45°	1169	1201	1203
50°	1150	1192	1137
55°	1118	1161	1095
60°	1070	1086	1038
65°	1002	1029	975
70°	912	949	882
75°	761	832	748
80°	603	635	518
85°	392	340	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	3.3
10°-20°	123.8	9.5
20°-30°	188.9	14.6
30°-40°	230.4	17.7
40°-50°	241.2	18.6
50°-60°	214.6	16.5
60°-70°	158.3	12.2
70°-80°	81.8	6.3
80°-90°	15.9	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°	355.8	27.4
0°-40°	586.2	45.2
0°-60°	1042.0	80.3
0°-90°	1298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	454	454	452	454	454	43
15°	439	439	437	439	439	124
25°	409	409	409	412	412	189
35°	365	365	368	372	371	228
45°	307	309	316	319	316	237
55°	238	243	248	237	234	212
65°	157	168	162	156	153	156
75°	73	81	80	74	72	79
85°	13	14	11	10	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.2	455.2	455.2	455.2	455.2
2.5°	455.6	455.2	453.1	455.2	455.2
5°	453.9	453.5	451.8	453.5	453.5
7.5°	451.8	451.4	449.7	451.4	451.4
10°	448.4	448.0	446.8	448.4	448.0
12.5°	444.2	444.2	442.1	444.2	443.4
15°	439.1	438.7	437.0	438.7	438.7
17.5°	432.8	432.4	431.1	433.2	432.4
20°	426.0	425.6	424.8	426.9	426.4
22.5°	418.0	418.0	416.7	419.3	419.3
25°	409.1	409.1	408.7	411.6	411.6
27.5°	400.2	399.4	399.4	402.3	402.8
30°	388.8	388.8	389.6	393.0	392.6
32.5°	377.4	377.8	379.5	382.4	382.9
35°	364.7	365.1	367.6	371.9	371.4
37.5°	351.1	352.4	355.4	360.0	360.0
40°	337.6	338.4	342.3	347.3	347.8
42.5°	322.4	324.5	328.7	334.6	333.8
45°	307.1	309.3	315.6	318.6	316.0
47.5°	291.1	293.6	300.0	300.4	291.9
50°	274.6	277.5	284.7	276.3	271.6
52.5°	255.5	261.0	267.4	255.5	252.6
55°	238.2	243.3	247.5	236.9	233.5
57.5°	218.7	225.5	222.5	217.5	213.2
60°	198.8	206.0	201.8	196.7	192.9
62.5°	178.5	186.6	182.3	177.3	173.9
65°	157.4	168.4	161.6	156.1	153.1
67.5°	137.5	148.1	140.0	135.8	132.8
70°	115.9	124.8	120.6	115.1	112.1
72.5°	94.8	101.5	100.3	94.3	92.2
75°	73.2	80.8	80.0	73.6	71.9
77.5°	55.0	62.2	59.7	54.6	52.5
80°	38.9	43.6	41.0	35.1	33.4
82.5°	23.7	27.5	23.3	19.9	18.2
85°	12.7	14.0	11.0	10.2	9.7
87.5°	4.7	4.7	4.7	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)