

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: P258902

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258902
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-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1100.0 lumens
Efficiency: N/A
Efficacy: 70.0 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

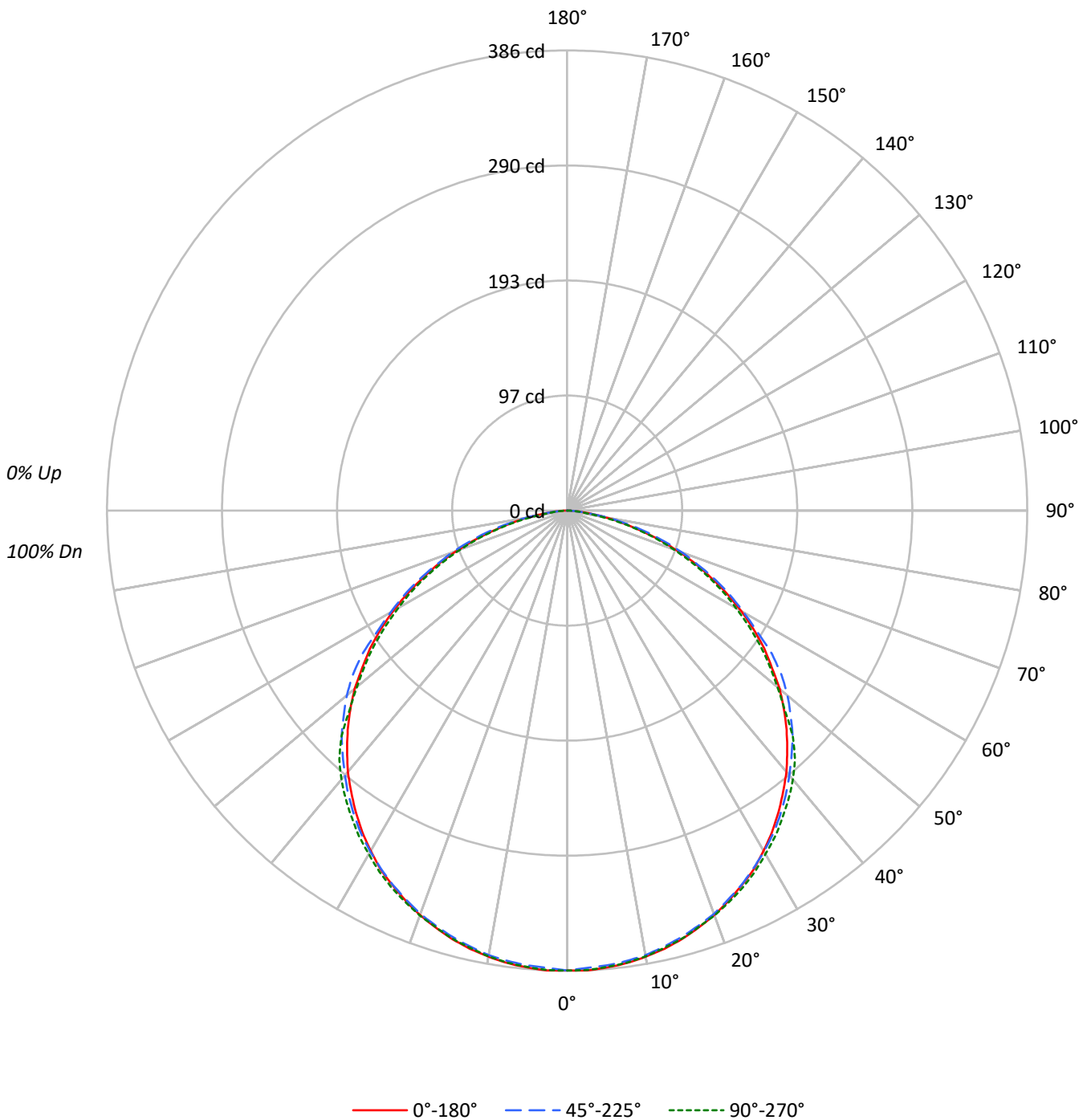
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1038	1038	1038
5°	1039	1034	1038
10°	1038	1035	1038
15°	1037	1032	1036
20°	1034	1031	1035
25°	1029	1028	1036
30°	1024	1026	1034
35°	1015	1024	1034
40°	1005	1019	1035
45°	991	1018	1019
50°	974	1010	964
55°	947	984	928
60°	907	920	880
65°	849	872	826
70°	773	804	747
75°	645	705	633
80°	511	539	439
85°	333	287	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	3.3
10°-20°	104.9	9.5
20°-30°	160.1	14.6
30°-40°	195.2	17.7
40°-50°	204.4	18.6
50°-60°	181.9	16.5
60°-70°	134.2	12.2
70°-80°	69.3	6.3
80°-90°	13.5	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°	301.5	27.4
0°-40°	496.8	45.2
0°-60°	883.0	80.3
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	385	384	383	384	384	37
15°	372	372	370	372	372	105
25°	347	347	346	349	349	160
35°	309	309	312	315	315	193
45°	260	262	268	270	268	201
55°	202	206	210	201	198	180
65°	133	143	137	132	130	132
75°	62	68	68	62	61	67
85°	11	12	9	9	8	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	385.8	385.8	385.8	385.8	385.8
2.5°	386.1	385.8	384.0	385.8	385.8
5°	384.7	384.3	382.9	384.3	384.3
7.5°	382.9	382.5	381.1	382.5	382.5
10°	380.0	379.7	378.6	380.0	379.7
12.5°	376.5	376.5	374.7	376.5	375.7
15°	372.2	371.8	370.4	371.8	371.8
17.5°	366.8	366.4	365.3	367.1	366.4
20°	361.0	360.7	360.0	361.8	361.4
22.5°	354.2	354.2	353.1	355.3	355.3
25°	346.7	346.7	346.3	348.8	348.8
27.5°	339.2	338.4	338.4	341.0	341.3
30°	329.5	329.5	330.2	333.1	332.7
32.5°	319.8	320.2	321.6	324.1	324.5
35°	309.0	309.4	311.6	315.1	314.8
37.5°	297.6	298.7	301.2	305.1	305.1
40°	286.1	286.8	290.0	294.4	294.7
42.5°	273.2	275.0	278.6	283.6	282.9
45°	260.3	262.1	267.5	270.0	267.8
47.5°	246.7	248.8	254.2	254.6	247.4
50°	232.7	235.2	241.3	234.1	230.2
52.5°	216.5	221.2	226.6	216.5	214.0
55°	201.9	206.2	209.7	200.8	197.9
57.5°	185.4	191.1	188.6	184.3	180.7
60°	168.5	174.6	171.0	166.7	163.5
62.5°	151.3	158.1	154.5	150.2	147.4
65°	133.4	142.7	137.0	132.3	129.8
67.5°	116.5	125.5	118.7	115.1	112.6
70°	98.2	105.8	102.2	97.5	95.0
72.5°	80.3	86.0	85.0	80.0	78.2
75°	62.0	68.5	67.8	62.4	60.9
77.5°	46.6	52.7	50.6	46.2	44.5
80°	33.0	36.9	34.8	29.8	28.3
82.5°	20.1	23.3	19.7	16.9	15.4
85°	10.8	11.8	9.3	8.6	8.2
87.5°	3.9	3.9	3.9	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)