

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: P258988

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258988
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-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1210.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

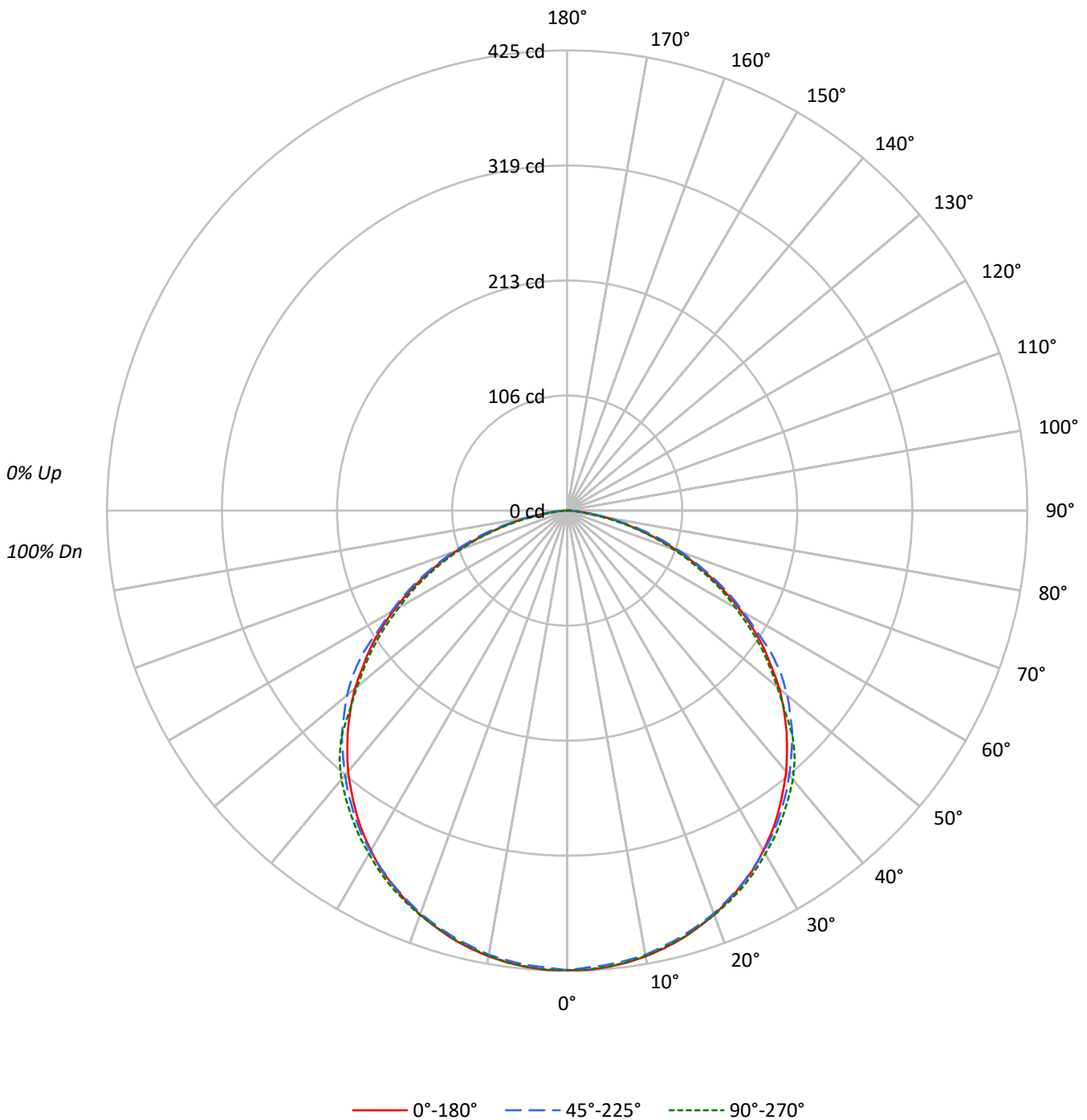
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1142	1142	1142
5°	1143	1138	1142
10°	1142	1138	1141
15°	1141	1135	1139
20°	1137	1134	1138
25°	1132	1131	1139
30°	1126	1129	1137
35°	1117	1126	1138
40°	1105	1121	1139
45°	1090	1120	1121
50°	1072	1111	1060
55°	1042	1082	1021
60°	998	1012	968
65°	934	960	909
70°	851	884	822
75°	709	775	697
80°	563	594	483
85°	364	318	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	3.3
10°-20°	115.4	9.5
20°-30°	176.1	14.6
30°-40°	214.8	17.7
40°-50°	224.9	18.6
50°-60°	200.0	16.5
60°-70°	147.6	12.2
70°-80°	76.3	6.3
80°-90°	14.8	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°	331.7	27.4
0°-40°	546.4	45.2
0°-60°	971.3	80.3
0°-90°	1210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	423	423	421	423	423	40
15°	409	409	407	409	409	116
25°	381	381	381	384	384	176
35°	340	340	343	347	346	213
45°	286	288	294	297	295	221
55°	222	227	231	221	218	198
65°	147	157	151	146	143	145
75°	68	75	74	69	67	74
85°	12	13	10	10	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	424.4	424.4	424.4	424.4	424.4
2.5°	424.7	424.4	422.4	424.4	424.4
5°	423.2	422.8	421.2	422.8	422.8
7.5°	421.2	420.8	419.2	420.8	420.8
10°	418.0	417.6	416.5	418.0	417.6
12.5°	414.1	414.1	412.1	414.1	413.3
15°	409.4	409.0	407.4	409.0	409.0
17.5°	403.4	403.1	401.9	403.8	403.1
20°	397.1	396.7	396.0	397.9	397.5
22.5°	389.6	389.6	388.5	390.8	390.8
25°	381.4	381.4	381.0	383.7	383.7
27.5°	373.1	372.3	372.3	375.1	375.4
30°	362.4	362.4	363.2	366.4	366.0
32.5°	351.8	352.2	353.8	356.5	356.9
35°	340.0	340.3	342.7	346.7	346.3
37.5°	327.3	328.5	331.3	335.6	335.6
40°	314.7	315.5	319.1	323.8	324.2
42.5°	300.5	302.5	306.4	312.0	311.2
45°	286.3	288.3	294.2	297.0	294.6
47.5°	271.3	273.7	279.6	280.0	272.1
50°	256.0	258.7	265.4	257.5	253.2
52.5°	238.2	243.3	249.2	238.2	235.4
55°	222.0	226.8	230.7	220.9	217.7
57.5°	203.9	210.2	207.4	202.7	198.8
60°	185.4	192.1	188.1	183.4	179.8
62.5°	166.4	173.9	170.0	165.2	162.1
65°	146.7	157.0	150.7	145.5	142.8
67.5°	128.2	138.0	130.5	126.6	123.8
70°	108.1	116.3	112.4	107.3	104.5
72.5°	88.3	94.7	93.5	87.9	86.0
75°	68.2	75.3	74.5	68.6	67.0
77.5°	51.3	58.0	55.6	50.9	48.9
80°	36.3	40.6	38.3	32.7	31.2
82.5°	22.1	25.6	21.7	18.5	17.0
85°	11.8	13.0	10.3	9.5	9.1
87.5°	4.3	4.3	4.3	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)