

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: P258903

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258903
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-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: 1202.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

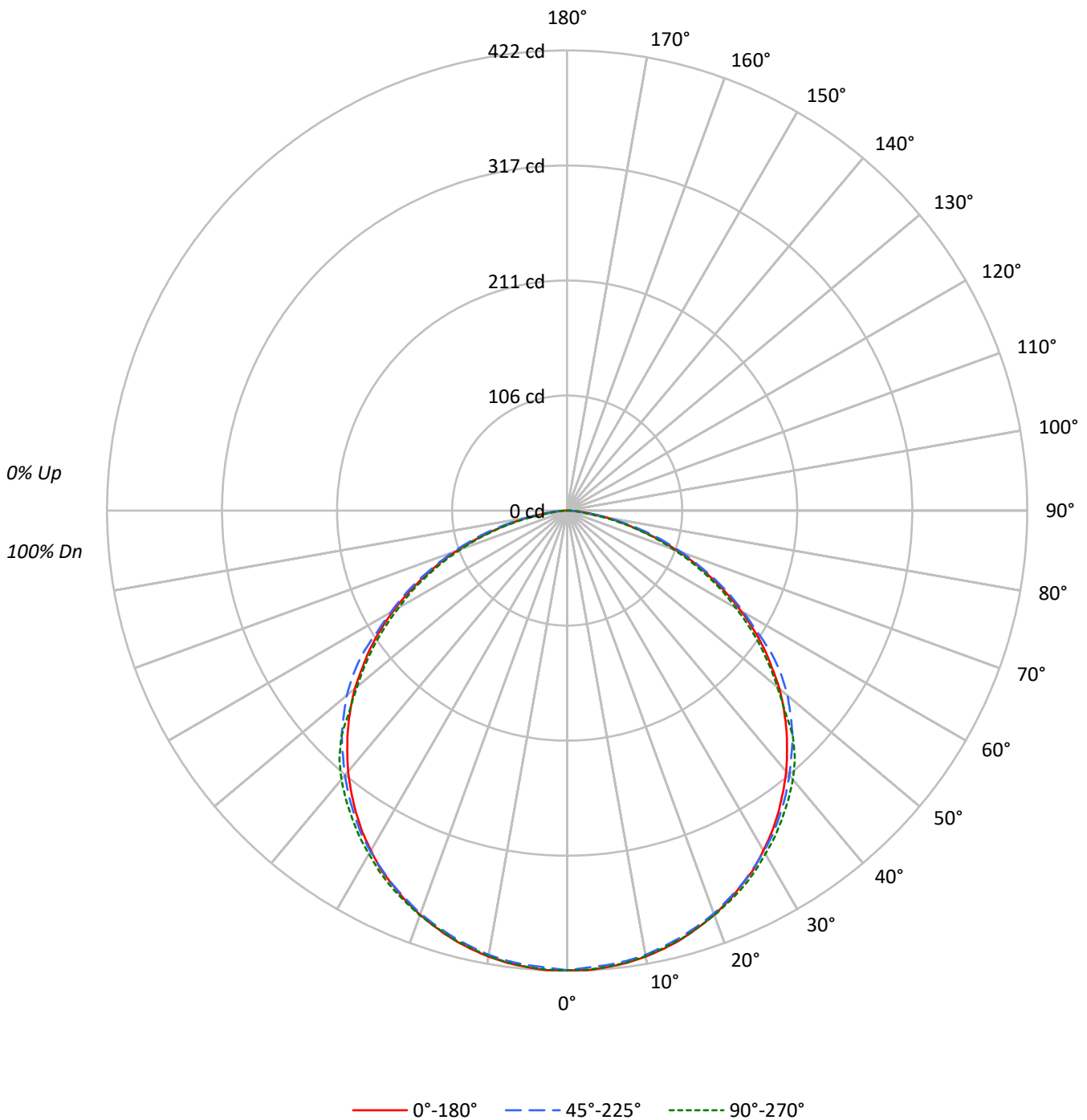
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1134	1134	1134
5°	1136	1130	1135
10°	1135	1130	1134
15°	1133	1127	1132
20°	1130	1126	1131
25°	1125	1124	1132
30°	1119	1121	1130
35°	1109	1118	1130
40°	1098	1113	1131
45°	1082	1112	1114
50°	1065	1104	1053
55°	1035	1075	1015
60°	991	1006	961
65°	928	953	903
70°	844	879	817
75°	705	769	692
80°	558	589	479
85°	364	315	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.3
10°-20°	114.6	9.5
20°-30°	175.0	14.6
30°-40°	213.3	17.7
40°-50°	223.4	18.6
50°-60°	198.7	16.5
60°-70°	146.6	12.2
70°-80°	75.7	6.3
80°-90°	14.7	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°	329.5	27.4
0°-40°	542.8	45.2
0°-60°	964.9	80.3
0°-90°	1202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	420	420	418	420	420	40
15°	407	406	405	406	406	115
25°	379	379	378	381	381	175
35°	338	338	340	344	344	211
45°	284	286	292	295	293	219
55°	221	225	229	219	216	197
65°	146	156	150	145	142	144
75°	68	75	74	68	67	73
85°	12	13	10	9	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	421.5	421.5	421.5	421.5	421.5
2.5°	421.9	421.5	419.6	421.5	421.5
5°	420.4	420.0	418.4	420.0	420.0
7.5°	418.4	418.0	416.5	418.0	418.0
10°	415.3	414.9	413.7	415.3	414.9
12.5°	411.4	411.4	409.4	411.4	410.6
15°	406.7	406.3	404.7	406.3	406.3
17.5°	400.8	400.4	399.2	401.2	400.4
20°	394.5	394.1	393.3	395.3	394.9
22.5°	387.1	387.1	385.9	388.2	388.2
25°	378.8	378.8	378.5	381.2	381.2
27.5°	370.6	369.8	369.8	372.6	373.0
30°	360.0	360.0	360.8	364.0	363.6
32.5°	349.5	349.9	351.4	354.2	354.6
35°	337.7	338.1	340.4	344.4	344.0
37.5°	325.2	326.3	329.1	333.4	333.4
40°	312.6	313.4	316.9	321.6	322.0
42.5°	298.5	300.5	304.4	309.9	309.1
45°	284.4	286.4	292.3	295.0	292.7
47.5°	269.5	271.9	277.8	278.2	270.3
50°	254.3	257.0	263.7	255.8	251.5
52.5°	236.6	241.7	247.6	236.6	233.9
55°	220.6	225.3	229.2	219.4	216.3
57.5°	202.5	208.8	206.1	201.4	197.5
60°	184.1	190.8	186.9	182.2	178.6
62.5°	165.3	172.8	168.9	164.2	161.0
65°	145.7	155.9	149.7	144.6	141.8
67.5°	127.3	137.1	129.7	125.8	123.0
70°	107.3	115.6	111.7	106.6	103.8
72.5°	87.8	94.0	92.8	87.4	85.4
75°	67.8	74.8	74.0	68.2	66.6
77.5°	50.9	57.6	55.2	50.5	48.6
80°	36.0	40.4	38.0	32.5	30.9
82.5°	21.9	25.5	21.5	18.4	16.8
85°	11.8	12.9	10.2	9.4	9.0
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)