

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: P259157

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1201.0 lumens
Efficiency: N/A
Efficacy: 77.3 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

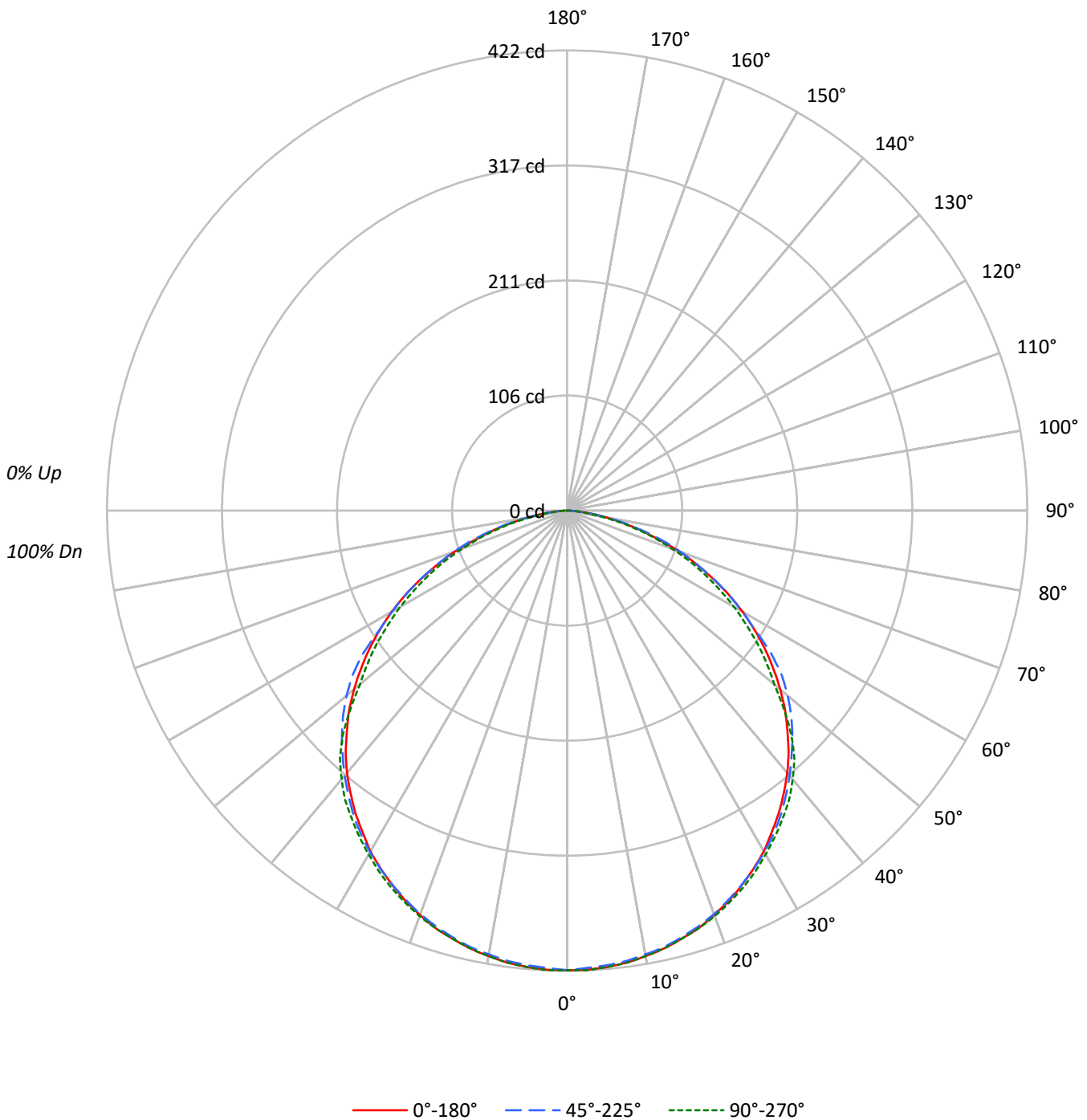
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1134	1134	1134
5°	1135	1131	1135
10°	1134	1129	1134
15°	1132	1129	1132
20°	1130	1128	1133
25°	1126	1124	1133
30°	1121	1124	1131
35°	1112	1121	1132
40°	1103	1115	1130
45°	1087	1112	1107
50°	1068	1105	1039
55°	1040	1071	1000
60°	1001	998	953
65°	938	943	891
70°	861	871	806
75°	724	757	689
80°	573	586	485
85°	377	327	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.3
10°-20°	114.7	9.6
20°-30°	175.2	14.6
30°-40°	213.7	17.8
40°-50°	223.5	18.6
50°-60°	197.9	16.5
60°-70°	145.7	12.1
70°-80°	75.4	6.3
80°-90°	15.0	1.3
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°	329.8	27.5
0°-40°	543.5	45.3
0°-60°	964.9	80.3
0°-90°	1201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	420	420	419	420	420	40
15°	406	406	405	407	406	115
25°	379	379	379	381	382	175
35°	338	339	341	345	345	212
45°	286	288	292	294	291	221
55°	222	226	228	216	213	198
65°	147	156	148	142	140	146
75°	70	74	73	68	66	74
85°	12	13	11	9	9	16
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°	421.5	421.5	419.8	421.5	421.9
5°	420.2	420.2	418.6	420.2	420.2
7.5°	418.2	417.8	416.6	418.2	418.2
10°	414.9	414.9	413.3	415.3	414.9
12.5°	411.3	410.9	410.1	411.7	411.3
15°	406.4	406.4	405.2	406.8	406.4
17.5°	401.5	401.1	399.9	401.5	401.5
20°	394.6	394.2	393.8	395.4	395.8
22.5°	387.3	386.9	386.5	388.9	388.9
25°	379.1	379.1	378.7	381.2	381.6
27.5°	370.2	370.2	370.6	373.9	373.4
30°	360.8	360.8	361.7	364.1	364.1
32.5°	349.4	350.3	351.9	354.7	354.7
35°	338.5	339.3	341.3	344.6	344.6
37.5°	326.3	327.5	329.5	333.6	334.4
40°	314.1	314.9	317.3	321.8	321.8
42.5°	300.6	301.4	304.7	309.2	308.4
45°	285.6	288.0	292.1	294.5	290.9
47.5°	271.3	273.0	278.7	275.8	269.7
50°	255.1	258.3	264.0	253.8	248.2
52.5°	238.4	242.1	248.2	233.9	230.7
55°	221.7	226.2	228.2	216.4	213.2
57.5°	203.8	208.7	204.6	197.7	194.5
60°	185.9	191.6	185.5	179.0	177.0
62.5°	167.2	173.7	166.8	161.1	158.2
65°	147.3	156.2	148.1	142.4	139.9
67.5°	127.7	137.1	128.6	123.7	122.0
70°	109.4	114.7	110.7	105.8	102.5
72.5°	87.5	92.8	91.9	86.6	84.6
75°	69.6	74.4	72.8	68.3	66.3
77.5°	51.7	57.0	55.3	50.0	49.2
80°	37.0	40.7	37.8	33.0	31.3
82.5°	23.2	26.0	22.4	18.7	17.9
85°	12.2	13.0	10.6	9.4	8.9
87.5°	4.1	4.5	4.5	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)