

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: P259102

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259102
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-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1328.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

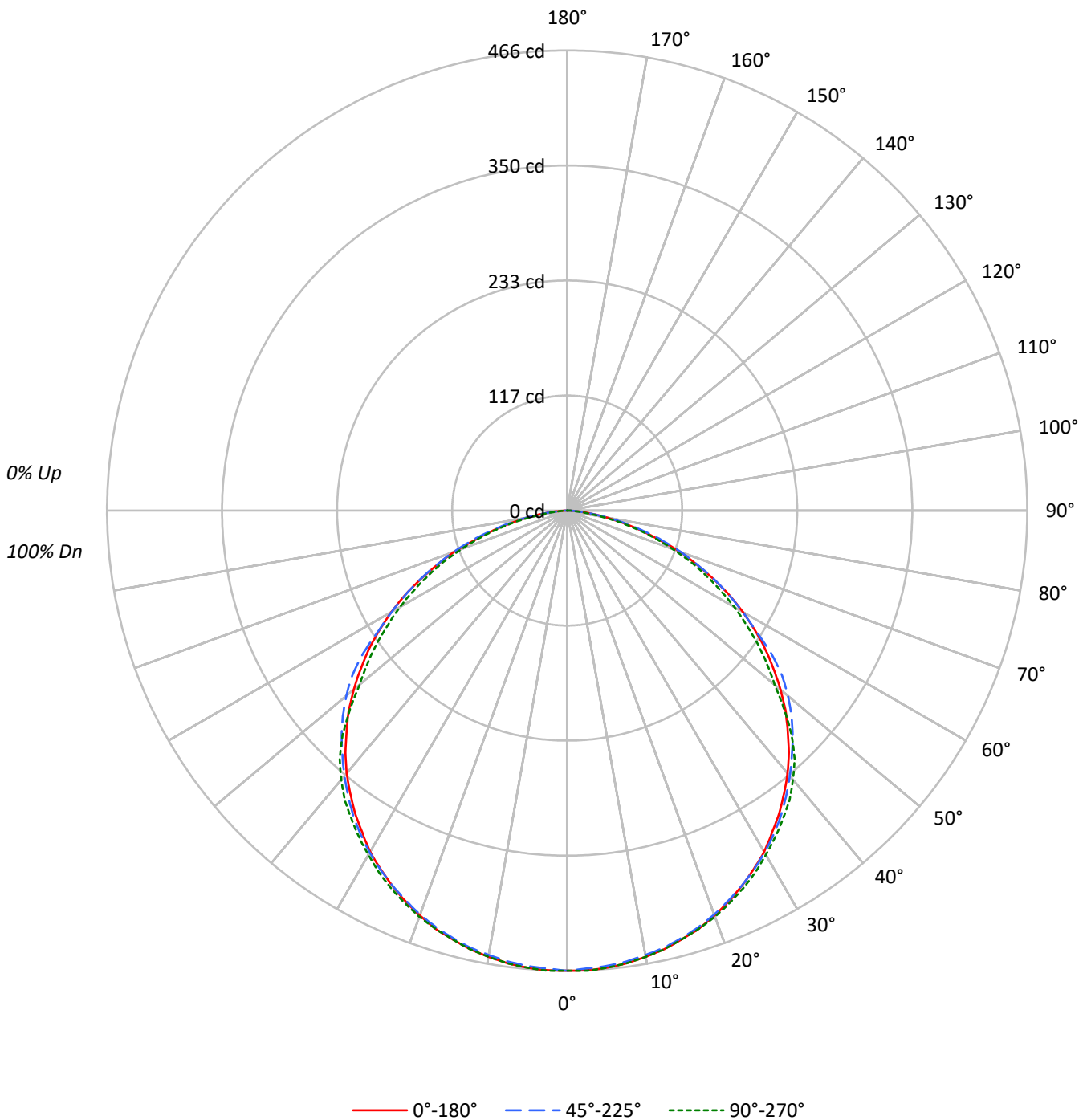
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254	1254	1254
5°	1255	1250	1255
10°	1254	1249	1254
15°	1252	1248	1252
20°	1249	1247	1253
25°	1245	1243	1253
30°	1240	1243	1251
35°	1230	1240	1252
40°	1220	1233	1250
45°	1202	1229	1224
50°	1181	1222	1149
55°	1150	1184	1106
60°	1107	1104	1053
65°	1037	1042	985
70°	952	963	892
75°	800	837	762
80°	634	648	536
85°	417	361	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.3
10°-20°	126.8	9.6
20°-30°	193.7	14.6
30°-40°	236.3	17.8
40°-50°	247.1	18.6
50°-60°	218.8	16.5
60°-70°	161.1	12.1
70°-80°	83.4	6.3
80°-90°	16.6	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°	364.7	27.5
0°-40°	601.0	45.3
0°-60°	1066.9	80.3
0°-90°	1328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	465	465	463	465	465	44
15°	449	449	448	450	449	127
25°	419	419	419	422	422	193
35°	374	375	377	381	381	234
45°	316	318	323	326	322	244
55°	245	250	252	239	236	219
65°	163	173	164	157	155	161
75°	77	82	80	76	73	82
85°	14	14	12	10	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	466.0	466.0	466.0	466.0	466.0
2.5°	466.0	466.0	464.2	466.0	466.5
5°	464.7	464.7	462.9	464.7	464.7
7.5°	462.4	462.0	460.6	462.4	462.4
10°	458.8	458.8	457.0	459.3	458.8
12.5°	454.8	454.3	453.4	455.2	454.8
15°	449.4	449.4	448.0	449.8	449.4
17.5°	444.0	443.5	442.2	444.0	444.0
20°	436.3	435.9	435.4	437.2	437.7
22.5°	428.2	427.8	427.3	430.0	430.0
25°	419.2	419.2	418.8	421.5	421.9
27.5°	409.3	409.3	409.8	413.4	412.9
30°	399.0	399.0	399.9	402.6	402.6
32.5°	386.4	387.3	389.1	392.2	392.2
35°	374.3	375.2	377.4	381.0	381.0
37.5°	360.8	362.1	364.4	368.9	369.8
40°	347.3	348.2	350.9	355.8	355.8
42.5°	332.4	333.3	336.9	341.9	341.0
45°	315.8	318.5	323.0	325.7	321.6
47.5°	300.0	301.8	308.1	305.0	298.2
50°	282.0	285.6	291.9	280.7	274.4
52.5°	263.6	267.6	274.4	258.6	255.1
55°	245.2	250.1	252.4	239.3	235.7
57.5°	225.4	230.8	226.3	218.6	215.0
60°	205.6	211.9	205.1	197.9	195.7
62.5°	184.9	192.1	184.4	178.1	175.0
65°	162.8	172.7	163.7	157.4	154.7
67.5°	141.2	151.6	142.1	136.7	134.9
70°	121.0	126.9	122.4	117.0	113.4
72.5°	96.7	102.6	101.7	95.8	93.6
75°	76.9	82.3	80.5	75.6	73.3
77.5°	57.1	63.0	61.2	55.3	54.4
80°	40.9	45.0	41.8	36.4	34.6
82.5°	25.6	28.8	24.7	20.7	19.8
85°	13.5	14.4	11.7	10.3	9.9
87.5°	4.5	4.9	4.9	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)