

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: P275790

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1387.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

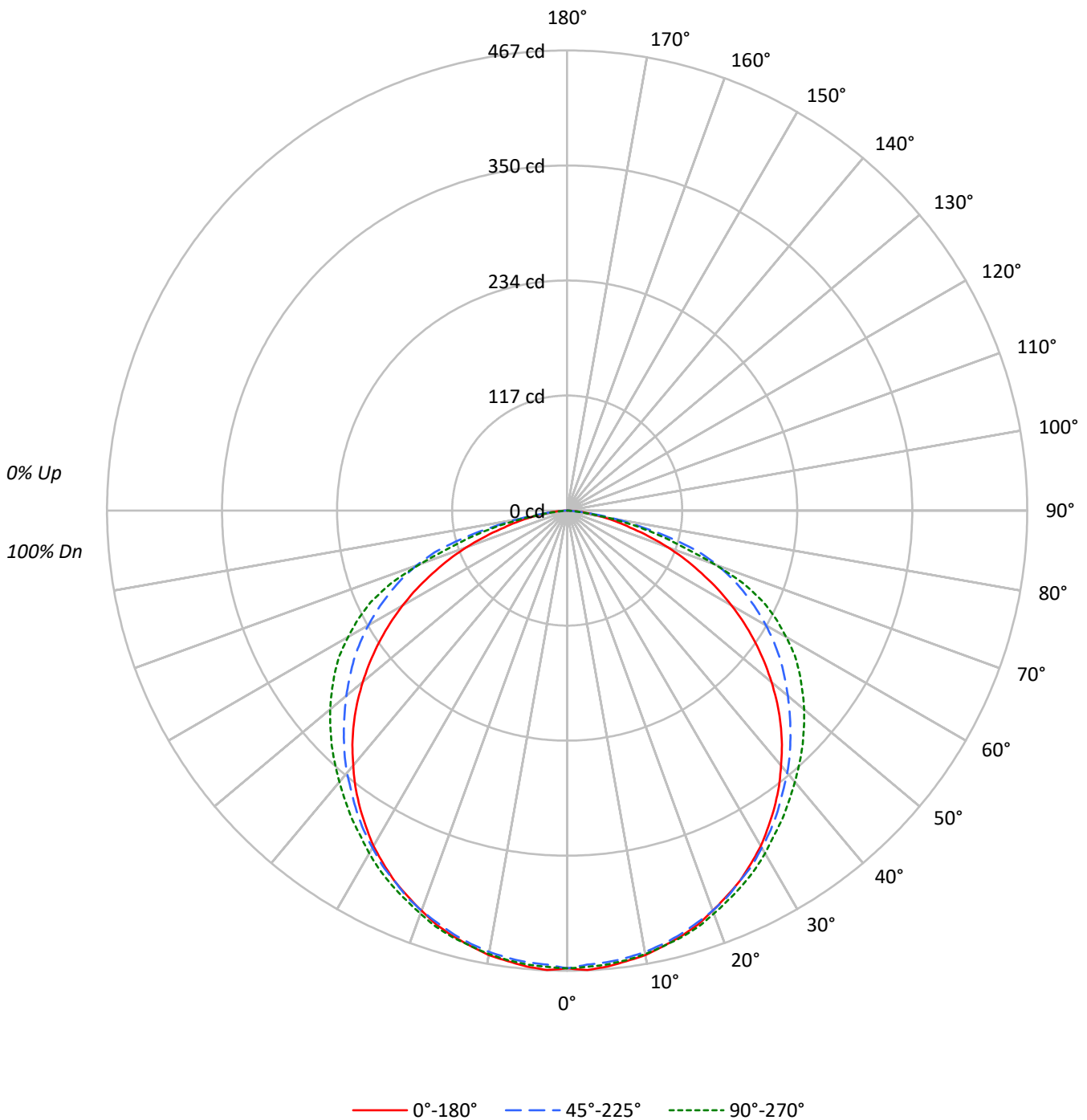
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1250	1250	1250
5°	1255	1243	1249
10°	1251	1243	1249
15°	1246	1240	1249
20°	1237	1237	1247
25°	1231	1231	1247
30°	1221	1228	1248
35°	1206	1224	1252
40°	1187	1221	1263
45°	1166	1220	1286
50°	1133	1224	1315
55°	1092	1240	1351
60°	1037	1253	1381
65°	958	1268	1400
70°	852	1278	1253
75°	687	1149	1002
80°	538	806	654
85°	367	235	167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	3.2
10°-20°	126.2	9.1
20°-30°	192.1	13.8
30°-40°	234.0	16.9
40°-50°	248.2	17.9
50°-60°	234.3	16.9
60°-70°	189.1	13.6
70°-80°	102.6	7.4
80°-90°	16.6	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°	362.2	26.1
0°-40°	596.2	43.0
0°-60°	1078.6	77.8
0°-90°	1387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	464	464	460	464	462	44
15°	447	446	445	448	448	126
25°	415	414	415	419	420	191
35°	367	369	372	380	381	230
45°	306	311	320	332	338	236
55°	233	243	264	282	288	208
65°	150	169	199	216	220	149
75°	66	96	110	100	96	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.5	464.5	464.5	464.5	464.5
2.5°	466.7	464.5	461.3	464.5	463.5
5°	464.5	463.5	460.2	463.5	462.4
7.5°	461.3	461.3	458.0	460.2	460.2
10°	458.0	457.0	454.8	458.0	457.0
12.5°	452.6	451.5	450.5	453.7	452.6
15°	447.2	446.1	445.1	448.3	448.3
17.5°	440.7	439.6	438.6	442.9	442.9
20°	432.1	432.1	432.1	436.4	435.3
22.5°	423.4	423.4	424.5	428.8	427.7
25°	414.7	413.6	414.7	419.1	420.1
27.5°	403.9	405.0	406.1	410.4	411.5
30°	393.1	394.2	395.2	400.7	401.7
32.5°	380.1	382.2	384.4	390.9	390.9
35°	367.1	369.3	372.5	380.1	381.2
37.5°	353.0	355.2	359.5	368.2	370.3
40°	337.8	341.1	347.6	356.3	359.5
42.5°	322.7	327.0	334.6	344.3	348.7
45°	306.4	310.8	320.5	332.4	337.8
47.5°	289.1	294.5	306.4	321.6	325.9
50°	270.7	278.3	292.4	308.6	314.0
52.5°	252.3	261.0	278.3	295.6	301.0
55°	232.8	242.6	264.2	281.5	288.0
57.5°	213.3	224.1	249.1	267.5	274.0
60°	192.7	205.7	232.8	251.2	256.6
62.5°	172.2	187.3	216.6	235.0	239.3
65°	150.5	168.9	199.2	215.5	219.8
67.5°	129.9	151.6	181.9	193.8	193.8
70°	108.3	132.1	162.4	165.7	159.2
72.5°	86.6	113.7	140.8	128.9	123.4
75°	66.1	96.4	110.5	99.6	96.4
77.5°	49.8	78.0	78.0	71.5	69.3
80°	34.7	59.6	52.0	45.5	42.2
82.5°	22.7	33.6	27.1	21.7	18.4
85°	11.9	13.0	7.6	6.5	5.4
87.5°	4.3	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)