

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: P275725

Luminaire Tested: **14CZ2-20-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275725
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1334.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

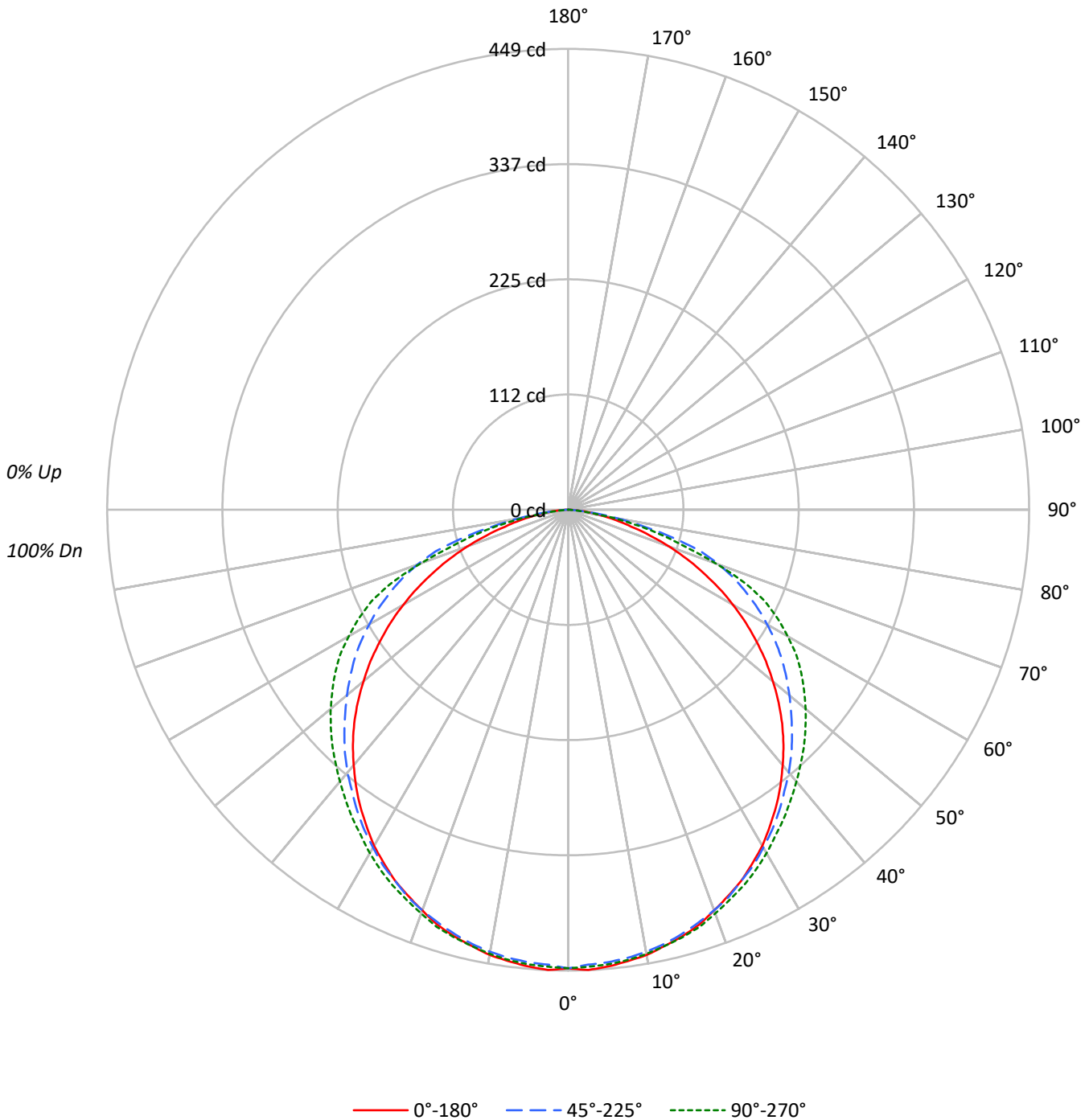
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275725

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275725

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L83050-W2A1-U-3500K

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°	1202	1202	1202
5°	1207	1196	1201
10°	1204	1195	1201
15°	1198	1192	1201
20°	1190	1190	1199
25°	1184	1184	1200
30°	1175	1181	1201
35°	1160	1177	1204
40°	1141	1174	1215
45°	1122	1173	1236
50°	1090	1177	1264
55°	1050	1192	1300
60°	998	1205	1328
65°	922	1220	1346
70°	819	1229	1205
75°	660	1104	964
80°	516	775	629
85°	355	225	161



TEST NUMBER: P275725

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	3.2
10°-20°	121.3	9.1
20°-30°	184.7	13.8
30°-40°	225.0	16.9
40°-50°	238.7	17.9
50°-60°	225.3	16.9
60°-70°	181.9	13.6
70°-80°	98.7	7.4
80°-90°	16.0	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°	348.4	26.1
0°-40°	573.4	43.0
0°-60°	1037.4	77.8
0°-90°	1334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	447	446	443	446	445	42
15°	430	429	428	431	431	121
25°	399	398	399	403	404	184
35°	353	355	358	366	367	221
45°	295	299	308	320	325	227
55°	224	233	254	271	277	200
65°	145	162	192	207	211	143
75°	64	93	106	96	93	69
85°	12	12	7	6	5	15
90°	0	0	0	0	0	



TEST NUMBER: P275725

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	446.8	446.8	446.8	446.8	446.8
2.5°	448.9	446.8	443.7	446.8	445.7
5°	446.8	445.7	442.6	445.7	444.7
7.5°	443.7	443.7	440.5	442.6	442.6
10°	440.5	439.5	437.4	440.5	439.5
12.5°	435.3	434.3	433.3	436.4	435.3
15°	430.1	429.1	428.0	431.2	431.2
17.5°	423.9	422.8	421.8	426.0	426.0
20°	415.5	415.5	415.5	419.7	418.7
22.5°	407.2	407.2	408.3	412.4	411.4
25°	398.9	397.8	398.9	403.0	404.1
27.5°	388.5	389.5	390.6	394.7	395.8
30°	378.1	379.1	380.1	385.3	386.4
32.5°	365.6	367.6	369.7	376.0	376.0
35°	353.1	355.1	358.3	365.6	366.6
37.5°	339.5	341.6	345.8	354.1	356.2
40°	324.9	328.1	334.3	342.6	345.8
42.5°	310.4	314.5	321.8	331.2	335.4
45°	294.7	298.9	308.3	319.7	324.9
47.5°	278.1	283.3	294.7	309.3	313.5
50°	260.4	267.7	281.2	296.8	302.0
52.5°	242.7	251.0	267.7	284.3	289.5
55°	223.9	233.3	254.1	270.8	277.0
57.5°	205.2	215.6	239.5	257.2	263.5
60°	185.4	197.9	223.9	241.6	246.8
62.5°	165.6	180.2	208.3	226.0	230.2
65°	144.8	162.5	191.6	207.3	211.4
67.5°	125.0	145.8	175.0	186.4	186.4
70°	104.1	127.1	156.2	159.3	153.1
72.5°	83.3	109.4	135.4	123.9	118.7
75°	63.5	92.7	106.2	95.8	92.7
77.5°	47.9	75.0	75.0	68.7	66.7
80°	33.3	57.3	50.0	43.7	40.6
82.5°	21.9	32.3	26.0	20.8	17.7
85°	11.5	12.5	7.3	6.2	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)