

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: P275786

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275786
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-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: 1303.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

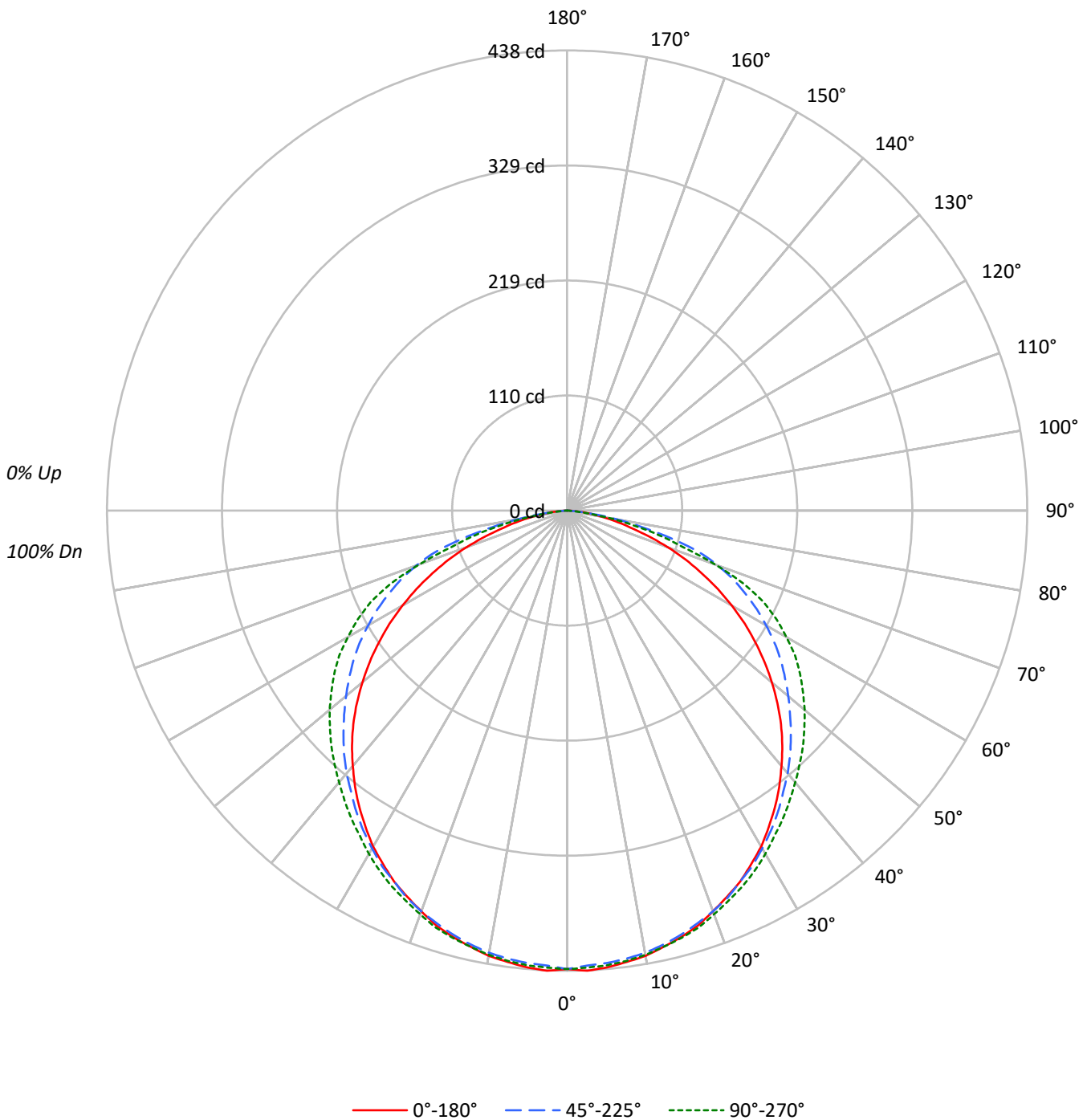
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1174	1174	1174
5°	1179	1168	1173
10°	1176	1168	1173
15°	1170	1165	1173
20°	1162	1162	1171
25°	1157	1157	1172
30°	1148	1154	1173
35°	1133	1149	1176
40°	1115	1147	1186
45°	1096	1146	1208
50°	1065	1150	1235
55°	1026	1164	1270
60°	975	1177	1298
65°	900	1192	1315
70°	800	1201	1176
75°	646	1079	941
80°	505	756	615
85°	346	219	157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	3.2
10°-20°	118.5	9.1
20°-30°	180.5	13.8
30°-40°	219.8	16.9
40°-50°	233.2	17.9
50°-60°	220.1	16.9
60°-70°	177.7	13.6
70°-80°	96.4	7.4
80°-90°	15.6	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°	340.3	26.1
0°-40°	560.1	43.0
0°-60°	1013.3	77.8
0°-90°	1303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	436	435	432	435	434	41
15°	420	419	418	421	421	119
25°	390	389	390	394	395	179
35°	345	347	350	357	358	216
45°	288	292	301	312	317	222
55°	219	228	248	264	271	195
65°	141	159	187	202	206	140
75°	62	90	104	94	90	68
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	436.4	436.4	436.4	436.4	436.4
2.5°	438.4	436.4	433.4	436.4	435.4
5°	436.4	435.4	432.3	435.4	434.4
7.5°	433.4	433.4	430.3	432.3	432.3
10°	430.3	429.3	427.3	430.3	429.3
12.5°	425.2	424.2	423.2	426.2	425.2
15°	420.1	419.1	418.1	421.1	421.1
17.5°	414.0	413.0	412.0	416.1	416.1
20°	405.9	405.9	405.9	410.0	408.9
22.5°	397.8	397.8	398.8	402.8	401.8
25°	389.6	388.6	389.6	393.7	394.7
27.5°	379.4	380.5	381.5	385.5	386.6
30°	369.3	370.3	371.3	376.4	377.4
32.5°	357.1	359.1	361.1	367.2	367.2
35°	344.9	346.9	349.9	357.1	358.1
37.5°	331.6	333.7	337.7	345.9	347.9
40°	317.4	320.4	326.5	334.7	337.7
42.5°	303.1	307.2	314.3	323.5	327.6
45°	287.9	292.0	301.1	312.3	317.4
47.5°	271.6	276.7	287.9	302.1	306.2
50°	254.3	261.4	274.7	289.9	295.0
52.5°	237.0	245.2	261.4	277.7	282.8
55°	218.7	227.9	248.2	264.5	270.6
57.5°	200.4	210.6	234.0	251.3	257.4
60°	181.1	193.3	218.7	236.0	241.1
62.5°	161.7	176.0	203.5	220.7	224.8
65°	141.4	158.7	187.2	202.4	206.5
67.5°	122.1	142.4	170.9	182.1	182.1
70°	101.7	124.1	152.6	155.6	149.5
72.5°	81.4	106.8	132.2	121.1	116.0
75°	62.1	90.5	103.8	93.6	90.5
77.5°	46.8	73.2	73.2	67.1	65.1
80°	32.6	55.9	48.8	42.7	39.7
82.5°	21.4	31.5	25.4	20.3	17.3
85°	11.2	12.2	7.1	6.1	5.1
87.5°	4.1	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)