

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: P275785

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275785
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1259.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

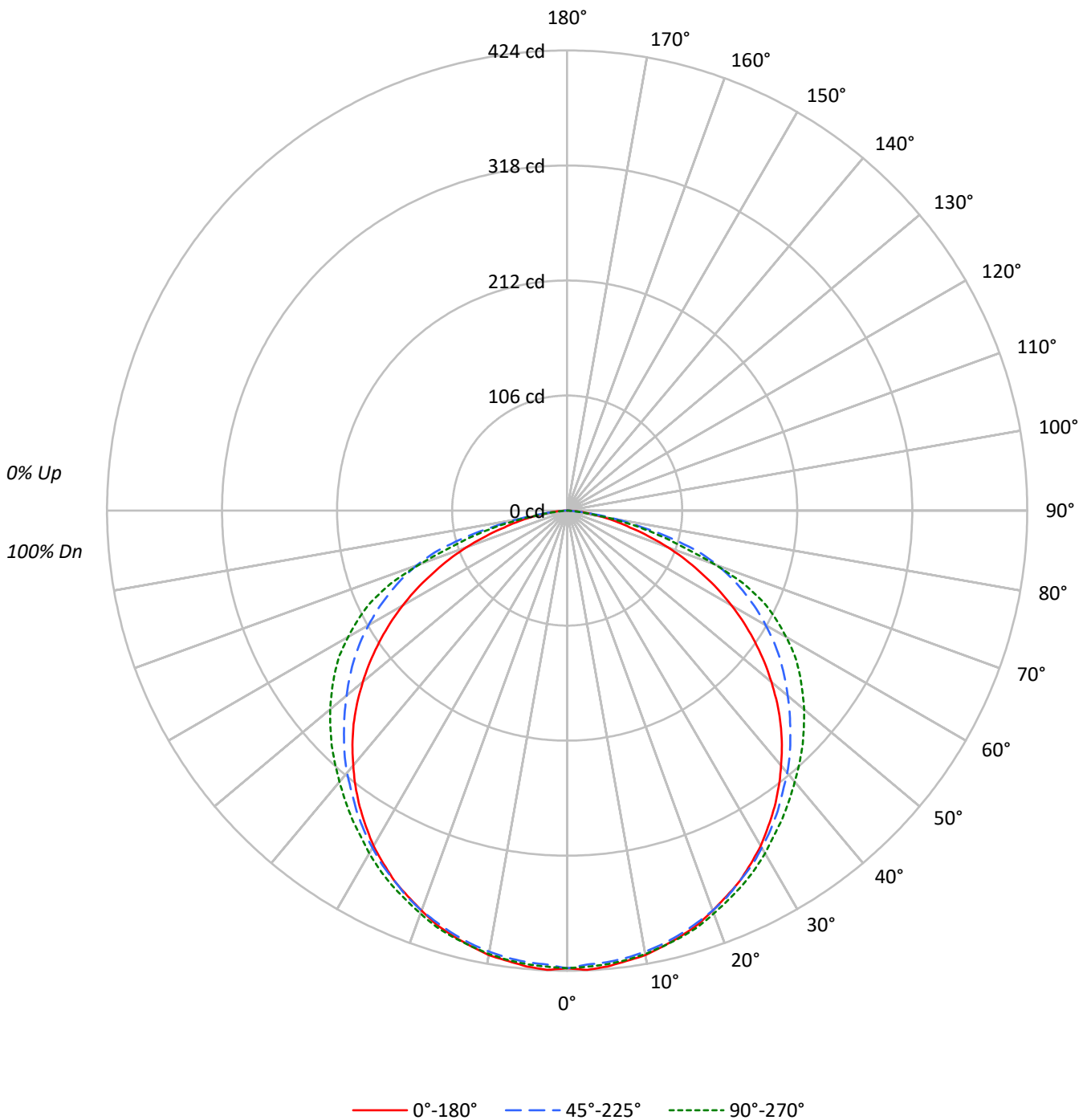
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1135	1135	1135
5°	1139	1128	1134
10°	1136	1128	1133
15°	1131	1126	1134
20°	1123	1123	1131
25°	1118	1118	1132
30°	1109	1115	1133
35°	1095	1111	1137
40°	1077	1108	1146
45°	1059	1107	1167
50°	1029	1111	1193
55°	991	1125	1227
60°	942	1137	1254
65°	870	1152	1270
70°	773	1160	1137
75°	624	1043	910
80°	488	731	594
85°	333	213	151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.2
10°-20°	114.5	9.1
20°-30°	174.4	13.8
30°-40°	212.4	16.9
40°-50°	225.3	17.9
50°-60°	212.6	16.9
60°-70°	171.7	13.6
70°-80°	93.2	7.4
80°-90°	15.1	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°	328.8	26.1
0°-40°	541.2	43.0
0°-60°	979.1	77.8
0°-90°	1259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	422	421	418	421	420	40
15°	406	405	404	407	407	115
25°	376	376	376	380	381	173
35°	333	335	338	345	346	208
45°	278	282	291	302	307	214
55°	211	220	240	256	262	189
65°	137	153	181	196	200	135
75°	60	88	100	90	88	66
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°	421.7	421.7	421.7	421.7	421.7
2.5°	423.6	421.7	418.7	421.7	420.7
5°	421.7	420.7	417.7	420.7	419.7
7.5°	418.7	418.7	415.8	417.7	417.7
10°	415.8	414.8	412.8	415.8	414.8
12.5°	410.9	409.9	408.9	411.8	410.9
15°	405.9	405.0	404.0	406.9	406.9
17.5°	400.0	399.1	398.1	402.0	402.0
20°	392.2	392.2	392.2	396.1	395.1
22.5°	384.3	384.3	385.3	389.2	388.3
25°	376.5	375.5	376.5	380.4	381.4
27.5°	366.6	367.6	368.6	372.5	373.5
30°	356.8	357.8	358.8	363.7	364.7
32.5°	345.0	347.0	348.9	354.8	354.8
35°	333.2	335.2	338.1	345.0	346.0
37.5°	320.4	322.4	326.3	334.2	336.2
40°	306.7	309.6	315.5	323.4	326.3
42.5°	292.9	296.8	303.7	312.6	316.5
45°	278.2	282.1	290.9	301.8	306.7
47.5°	262.4	267.4	278.2	291.9	295.9
50°	245.7	252.6	265.4	280.1	285.0
52.5°	229.0	236.9	252.6	268.3	273.3
55°	211.3	220.2	239.8	255.6	261.5
57.5°	193.6	203.5	226.1	242.8	248.7
60°	175.0	186.8	211.3	228.0	233.0
62.5°	156.3	170.0	196.6	213.3	217.2
65°	136.6	153.3	180.9	195.6	199.5
67.5°	117.9	137.6	165.1	175.9	175.9
70°	98.3	119.9	147.4	150.4	144.5
72.5°	78.6	103.2	127.8	117.0	112.1
75°	60.0	87.5	100.3	90.4	87.5
77.5°	45.2	70.8	70.8	64.9	62.9
80°	31.5	54.1	47.2	41.3	38.3
82.5°	20.6	30.5	24.6	19.7	16.7
85°	10.8	11.8	6.9	5.9	4.9
87.5°	3.9	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)