

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: P275843

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275843
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.0 lumens
Efficiency: N/A
Efficacy: 78.4 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

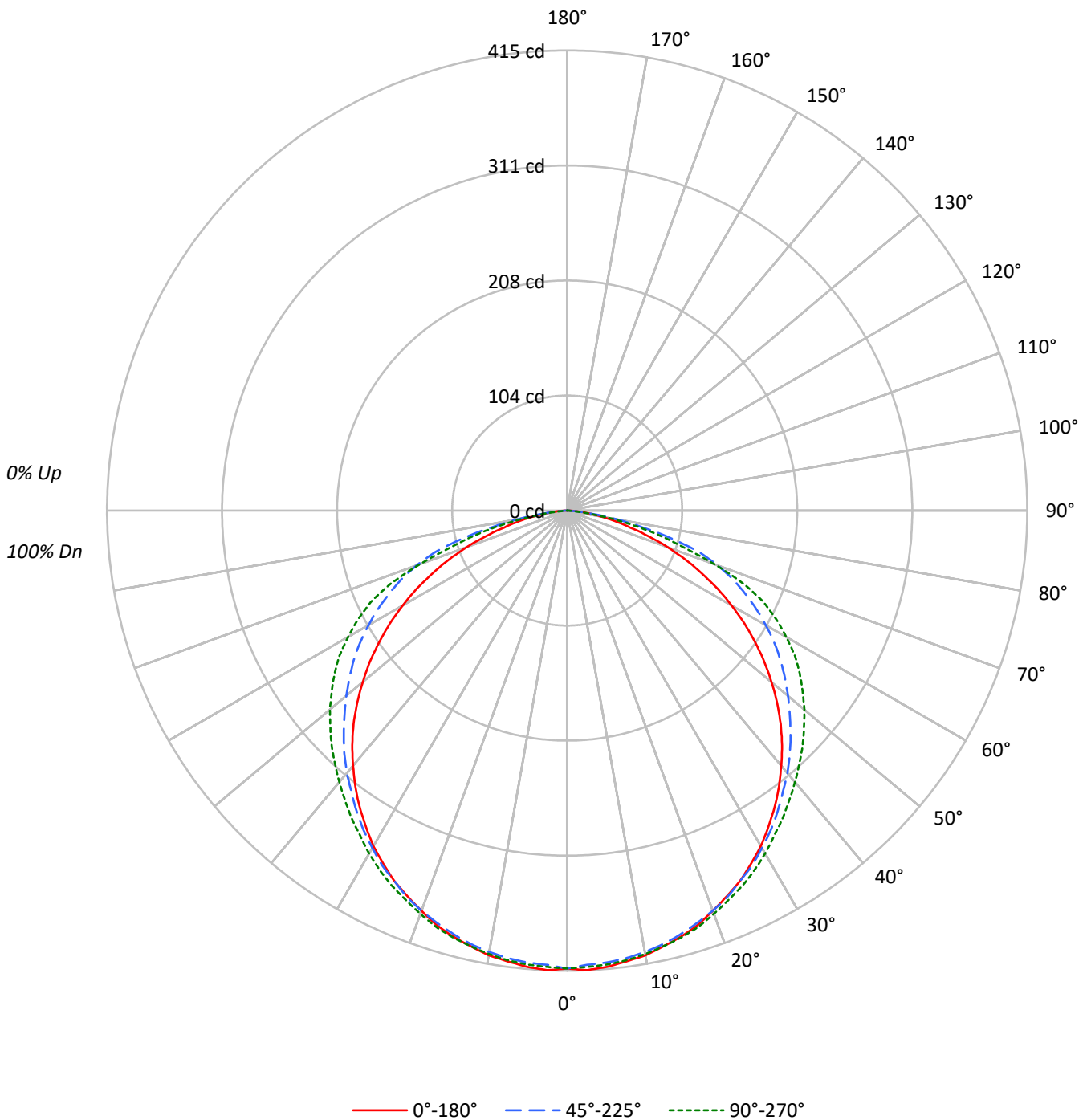
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1111	1111	1111
5°	1116	1105	1110
10°	1113	1105	1110
15°	1108	1102	1110
20°	1100	1100	1108
25°	1095	1095	1109
30°	1086	1092	1110
35°	1072	1088	1113
40°	1055	1085	1123
45°	1037	1084	1143
50°	1008	1088	1169
55°	971	1102	1202
60°	922	1114	1228
65°	852	1128	1244
70°	758	1136	1113
75°	610	1021	891
80°	477	716	581
85°	327	207	148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	3.2
10°-20°	112.1	9.1
20°-30°	170.8	13.8
30°-40°	208.0	16.9
40°-50°	220.6	17.9
50°-60°	208.3	16.9
60°-70°	168.1	13.6
70°-80°	91.2	7.4
80°-90°	14.8	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°	322.0	26.1
0°-40°	530.0	43.0
0°-60°	958.9	77.8
0°-90°	1233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	413	412	409	412	411	39
15°	398	397	396	398	398	112
25°	369	368	369	372	374	170
35°	326	328	331	338	339	204
45°	272	276	285	296	300	210
55°	207	216	235	250	256	185
65°	134	150	177	192	195	133
75°	59	86	98	89	86	64
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°	413.0	413.0	413.0	413.0	413.0
2.5°	414.9	413.0	410.1	413.0	412.0
5°	413.0	412.0	409.1	412.0	411.0
7.5°	410.1	410.1	407.2	409.1	409.1
10°	407.2	406.2	404.3	407.2	406.2
12.5°	402.4	401.4	400.4	403.3	402.4
15°	397.6	396.6	395.6	398.5	398.5
17.5°	391.8	390.8	389.9	393.7	393.7
20°	384.1	384.1	384.1	387.9	387.0
22.5°	376.4	376.4	377.3	381.2	380.2
25°	368.7	367.7	368.7	372.5	373.5
27.5°	359.1	360.0	361.0	364.8	365.8
30°	349.4	350.4	351.4	356.2	357.1
32.5°	337.9	339.8	341.7	347.5	347.5
35°	326.3	328.3	331.1	337.9	338.8
37.5°	313.8	315.7	319.6	327.3	329.2
40°	300.3	303.2	309.0	316.7	319.6
42.5°	286.9	290.7	297.4	306.1	310.0
45°	272.4	276.3	284.9	295.5	300.3
47.5°	257.0	261.8	272.4	285.9	289.7
50°	240.7	247.4	259.9	274.3	279.2
52.5°	224.3	232.0	247.4	262.8	267.6
55°	207.0	215.6	234.9	250.3	256.1
57.5°	189.6	199.3	221.4	237.8	243.5
60°	171.3	182.9	207.0	223.3	228.1
62.5°	153.1	166.5	192.5	208.9	212.7
65°	133.8	150.2	177.1	191.6	195.4
67.5°	115.5	134.8	161.7	172.3	172.3
70°	96.3	117.4	144.4	147.3	141.5
72.5°	77.0	101.1	125.1	114.6	109.7
75°	58.7	85.7	98.2	88.6	85.7
77.5°	44.3	69.3	69.3	63.5	61.6
80°	30.8	52.9	46.2	40.4	37.5
82.5°	20.2	29.8	24.1	19.3	16.4
85°	10.6	11.6	6.7	5.8	4.8
87.5°	3.9	1.9	1.0	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)