

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: P275792

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275792  
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-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1394.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 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

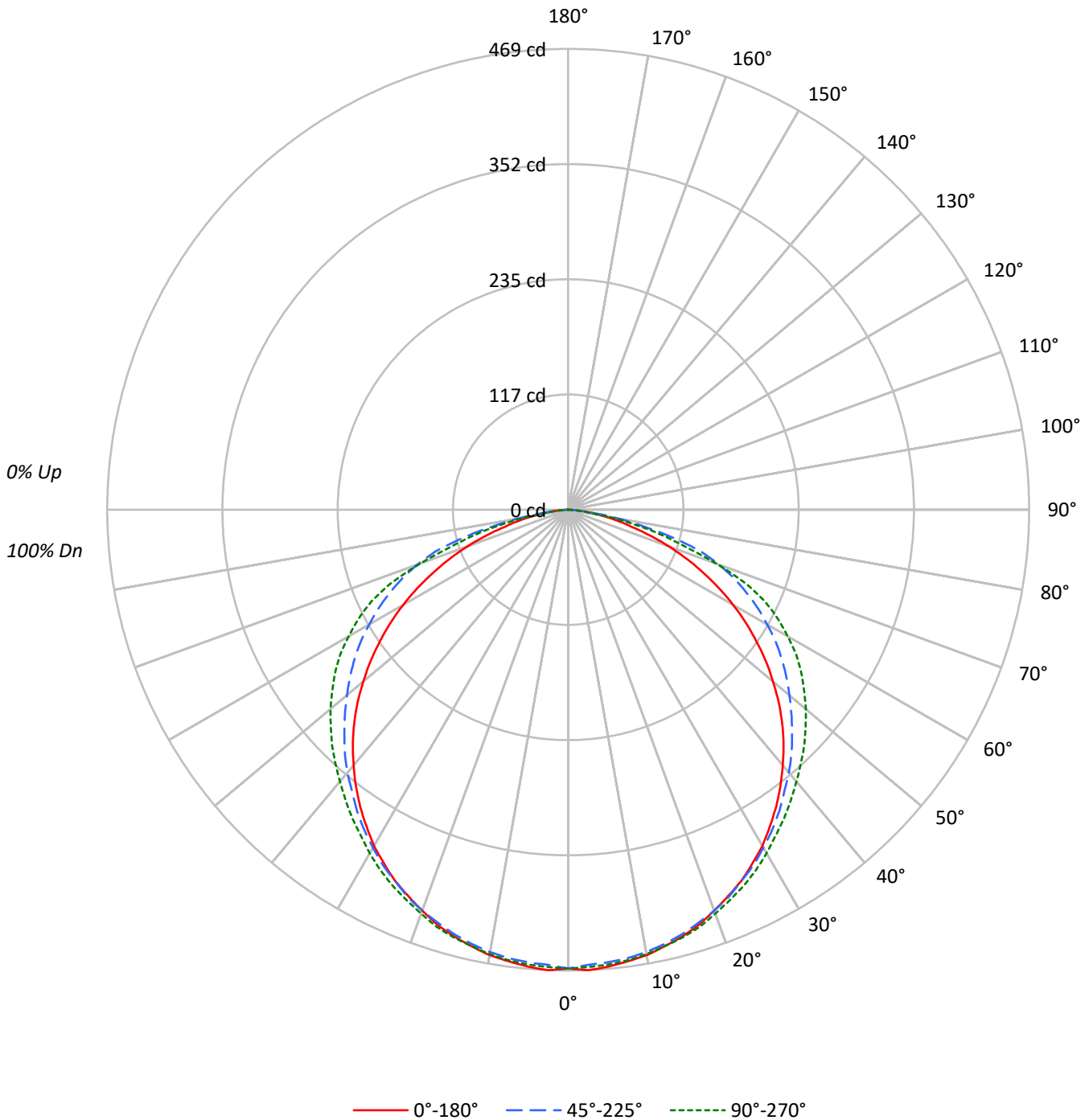
Input Watts (W): 15.996  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1256	1256	1256
5°	1261	1249	1255
10°	1258	1249	1255
15°	1252	1246	1255
20°	1243	1243	1253
25°	1238	1238	1254
30°	1228	1234	1255
35°	1212	1230	1259
40°	1193	1227	1269
45°	1172	1226	1292
50°	1139	1230	1321
55°	1098	1246	1358
60°	1042	1259	1388
65°	963	1275	1407
70°	856	1284	1259
75°	690	1154	1007
80°	539	809	657
85°	371	235	167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	3.2
10°-20°	126.8	9.1
20°-30°	193.1	13.8
30°-40°	235.1	16.9
40°-50°	249.5	17.9
50°-60°	235.4	16.9
60°-70°	190.1	13.6
70°-80°	103.1	7.4
80°-90°	16.7	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°	364.0	26.1
0°-40°	599.2	43.0
0°-60°	1084.1	77.8
0°-90°	1394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	467	466	462	466	465	44
15°	450	448	447	451	451	127
25°	417	416	417	421	422	192
35°	369	371	374	382	383	231
45°	308	312	322	334	340	237
55°	234	244	266	283	290	209
65°	151	170	200	217	221	150
75°	66	97	111	100	97	73
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°	466.9	466.9	466.9	466.9	466.9
2.5°	469.1	466.9	463.6	466.9	465.8
5°	466.9	465.8	462.5	465.8	464.7
7.5°	463.6	463.6	460.4	462.5	462.5
10°	460.4	459.3	457.1	460.4	459.3
12.5°	454.9	453.8	452.7	456.0	454.9
15°	449.5	448.4	447.3	450.6	450.6
17.5°	442.9	441.9	440.8	445.1	445.1
20°	434.2	434.2	434.2	438.6	437.5
22.5°	425.5	425.5	426.6	431.0	429.9
25°	416.8	415.7	416.8	421.2	422.3
27.5°	405.9	407.0	408.1	412.5	413.6
30°	395.1	396.1	397.2	402.7	403.8
32.5°	382.0	384.2	386.4	392.9	392.9
35°	368.9	371.1	374.4	382.0	383.1
37.5°	354.8	357.0	361.3	370.0	372.2
40°	339.6	342.8	349.3	358.1	361.3
42.5°	324.3	328.7	336.3	346.1	350.4
45°	308.0	312.3	322.1	334.1	339.6
47.5°	290.6	296.0	308.0	323.2	327.6
50°	272.1	279.7	293.8	310.2	315.6
52.5°	253.6	262.3	279.7	297.1	302.6
55°	234.0	243.8	265.5	283.0	289.5
57.5°	214.4	225.3	250.3	268.8	275.3
60°	193.7	206.8	234.0	252.5	257.9
62.5°	173.0	188.3	217.7	236.2	240.5
65°	151.3	169.8	200.2	216.6	220.9
67.5°	130.6	152.4	182.8	194.8	194.8
70°	108.8	132.8	163.2	166.5	160.0
72.5°	87.1	114.3	141.5	129.5	124.1
75°	66.4	96.9	111.0	100.1	96.9
77.5°	50.1	78.4	78.4	71.8	69.7
80°	34.8	59.9	52.2	45.7	42.4
82.5°	22.9	33.7	27.2	21.8	18.5
85°	12.0	13.1	7.6	6.5	5.4
87.5°	4.4	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)