

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: P275798

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275798  
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: 14CZ2-25-RDP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1603.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 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

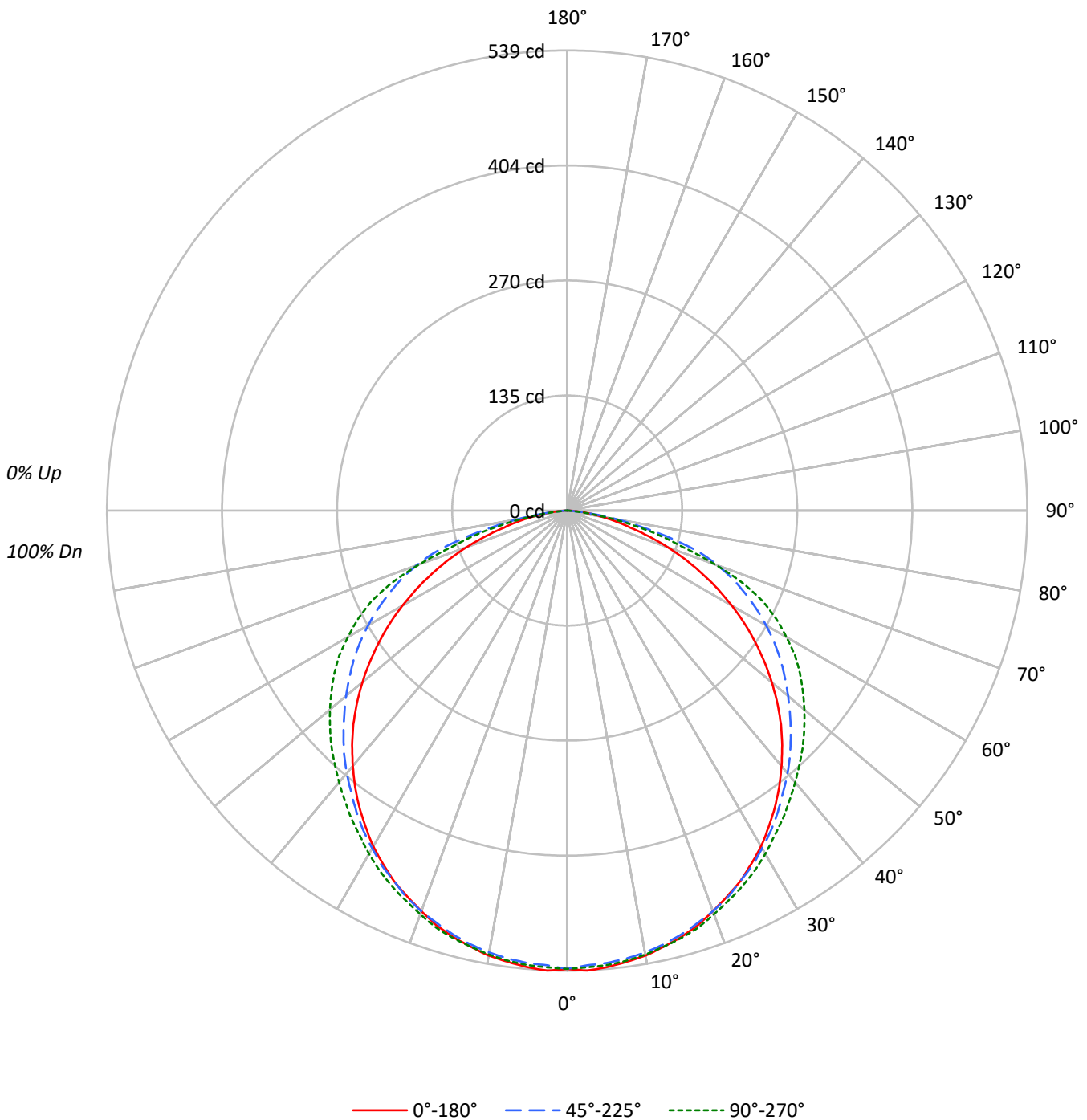
Input Watts (W): 18.693  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1445	1445	1445
5°	1450	1437	1444
10°	1447	1436	1443
15°	1440	1433	1443
20°	1430	1430	1441
25°	1423	1423	1442
30°	1412	1419	1443
35°	1394	1414	1447
40°	1372	1411	1460
45°	1348	1410	1486
50°	1310	1415	1519
55°	1263	1433	1562
60°	1199	1448	1596
65°	1108	1466	1618
70°	984	1477	1448
75°	793	1328	1158
80°	620	931	756
85°	426	272	195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	3.2
10°-20°	145.8	9.1
20°-30°	222.0	13.8
30°-40°	270.4	16.9
40°-50°	286.9	17.9
50°-60°	270.7	16.9
60°-70°	218.6	13.6
70°-80°	118.6	7.4
80°-90°	19.2	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°	418.6	26.1
0°-40°	689.0	43.0
0°-60°	1246.6	77.8
0°-90°	1603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	537	536	532	536	534	51
15°	517	516	514	518	518	146
25°	479	478	479	484	486	221
35°	424	427	430	439	440	265
45°	354	359	370	384	390	273
55°	269	280	305	325	333	240
65°	174	195	230	249	254	172
75°	76	111	128	115	111	83
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	536.9	536.9	536.9	536.9	536.9
2.5°	539.4	536.9	533.1	536.9	535.6
5°	536.9	535.6	531.9	535.6	534.4
7.5°	533.1	533.1	529.4	531.9	531.9
10°	529.4	528.1	525.6	529.4	528.1
12.5°	523.1	521.9	520.6	524.4	523.1
15°	516.9	515.6	514.4	518.1	518.1
17.5°	509.4	508.1	506.9	511.9	511.9
20°	499.3	499.3	499.3	504.3	503.1
22.5°	489.3	489.3	490.6	495.6	494.3
25°	479.3	478.1	479.3	484.3	485.6
27.5°	466.8	468.1	469.3	474.3	475.6
30°	454.3	455.5	456.8	463.0	464.3
32.5°	439.3	441.8	444.3	451.8	451.8
35°	424.3	426.8	430.5	439.3	440.5
37.5°	408.0	410.5	415.5	425.5	428.0
40°	390.5	394.2	401.7	411.7	415.5
42.5°	372.9	377.9	386.7	398.0	403.0
45°	354.2	359.2	370.4	384.2	390.5
47.5°	334.1	340.4	354.2	371.7	376.7
50°	312.9	321.6	337.9	356.7	362.9
52.5°	291.6	301.6	321.6	341.7	347.9
55°	269.1	280.3	305.4	325.4	332.9
57.5°	246.5	259.1	287.8	309.1	316.6
60°	222.8	237.8	269.1	290.3	296.6
62.5°	199.0	216.5	250.3	271.6	276.6
65°	174.0	195.2	230.3	249.0	254.1
67.5°	150.2	175.2	210.2	224.0	224.0
70°	125.1	152.7	187.7	191.5	184.0
72.5°	100.1	131.4	162.7	148.9	142.7
75°	76.3	111.4	127.7	115.1	111.4
77.5°	57.6	90.1	90.1	82.6	80.1
80°	40.0	68.8	60.1	52.6	48.8
82.5°	26.3	38.8	31.3	25.0	21.3
85°	13.8	15.0	8.8	7.5	6.3
87.5°	5.0	2.5	1.3	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)