

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: P275795

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275795  
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-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: 1521.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

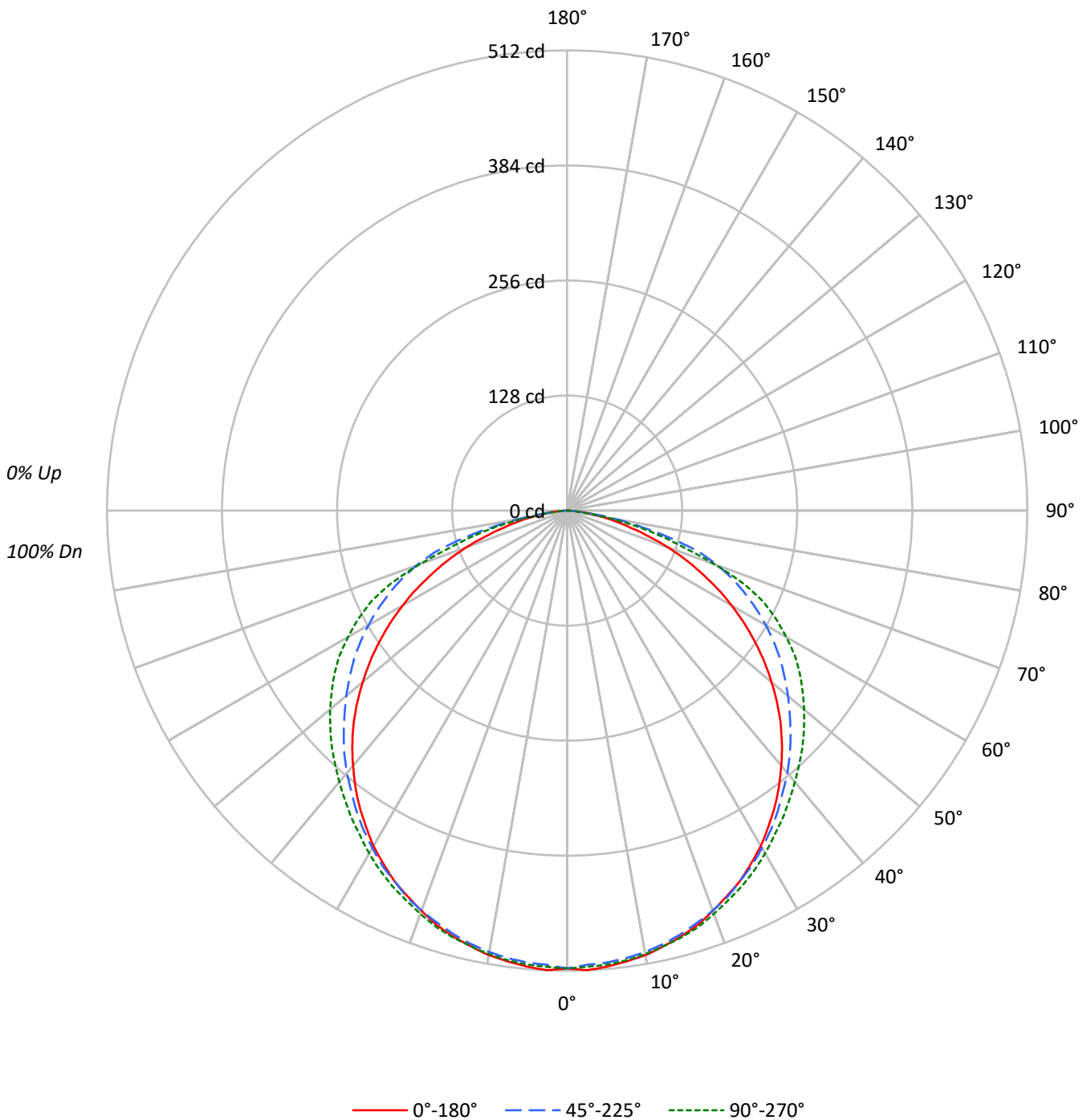
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1371	1371	1371
5°	1376	1363	1370
10°	1373	1363	1369
15°	1366	1360	1370
20°	1357	1357	1367
25°	1350	1350	1368
30°	1339	1347	1369
35°	1323	1342	1373
40°	1302	1339	1385
45°	1279	1338	1410
50°	1243	1342	1442
55°	1198	1359	1482
60°	1138	1374	1514
65°	1051	1391	1535
70°	934	1401	1374
75°	753	1259	1099
80°	589	883	717
85°	404	256	182



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	3.2
10°-20°	138.3	9.1
20°-30°	210.6	13.8
30°-40°	256.6	16.9
40°-50°	272.2	17.9
50°-60°	256.9	16.9
60°-70°	207.4	13.6
70°-80°	112.5	7.4
80°-90°	18.2	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°	397.2	26.1
0°-40°	653.8	43.0
0°-60°	1182.9	77.8
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	509	508	505	508	507	48
15°	490	489	488	492	492	138
25°	455	454	455	460	461	209
35°	403	405	408	417	418	252
45°	336	341	352	365	370	259
55°	255	266	290	309	316	228
65°	165	185	218	236	241	164
75°	72	106	121	109	106	79
85°	13	14	8	7	6	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	509.4	509.4	509.4	509.4	509.4
2.5°	511.8	509.4	505.9	509.4	508.2
5°	509.4	508.2	504.7	508.2	507.0
7.5°	505.9	505.9	502.3	504.7	504.7
10°	502.3	501.1	498.7	502.3	501.1
12.5°	496.4	495.2	494.0	497.5	496.4
15°	490.4	489.2	488.0	491.6	491.6
17.5°	483.3	482.1	480.9	485.7	485.7
20°	473.8	473.8	473.8	478.5	477.4
22.5°	464.3	464.3	465.5	470.2	469.0
25°	454.8	453.6	454.8	459.5	460.7
27.5°	442.9	444.1	445.3	450.0	451.2
30°	431.0	432.2	433.4	439.4	440.5
32.5°	416.8	419.2	421.5	428.7	428.7
35°	402.6	404.9	408.5	416.8	418.0
37.5°	387.1	389.5	394.2	403.7	406.1
40°	370.5	374.1	381.2	390.7	394.2
42.5°	353.9	358.6	366.9	377.6	382.4
45°	336.1	340.8	351.5	364.6	370.5
47.5°	317.1	323.0	336.1	352.7	357.4
50°	296.9	305.2	320.6	338.4	344.4
52.5°	276.7	286.2	305.2	324.2	330.1
55°	255.3	266.0	289.7	308.7	315.9
57.5°	233.9	245.8	273.1	293.3	300.4
60°	211.4	225.6	255.3	275.5	281.4
62.5°	188.8	205.4	237.5	257.7	262.4
65°	165.1	185.2	218.5	236.3	241.1
67.5°	142.5	166.2	199.5	212.6	212.6
70°	118.7	144.9	178.1	181.7	174.6
72.5°	95.0	124.7	154.4	141.3	135.4
75°	72.4	105.7	121.1	109.2	105.7
77.5°	54.6	85.5	85.5	78.4	76.0
80°	38.0	65.3	57.0	49.9	46.3
82.5°	24.9	36.8	29.7	23.7	20.2
85°	13.1	14.2	8.3	7.1	5.9
87.5°	4.7	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)