

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: P275730

Luminaire Tested: **14CZ2-25-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275730  
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-L83050-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: 1557.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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

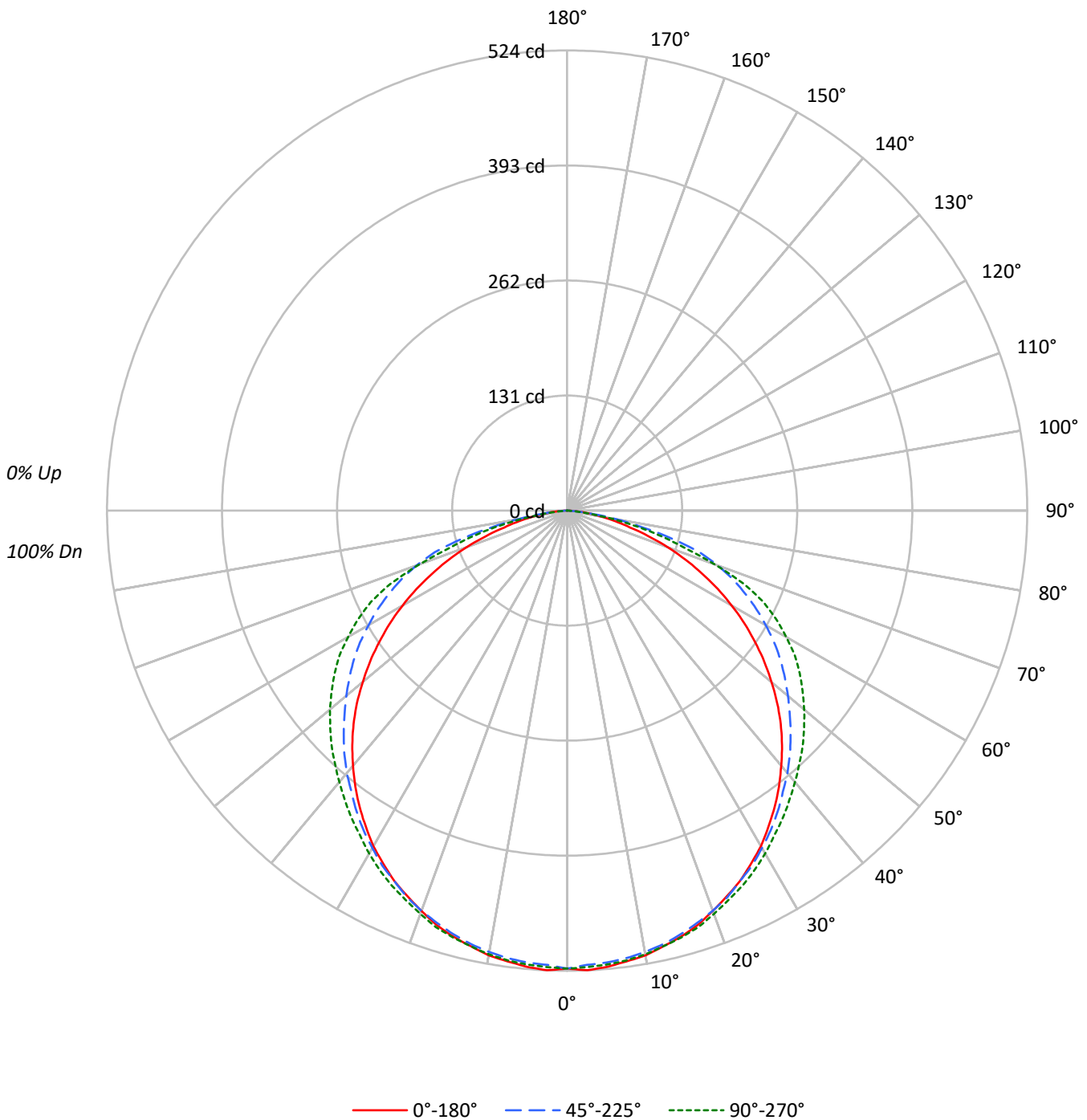
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1403	1403	1403
5°	1409	1395	1402
10°	1405	1395	1402
15°	1399	1392	1402
20°	1389	1389	1399
25°	1382	1382	1400
30°	1371	1379	1401
35°	1354	1374	1406
40°	1332	1371	1418
45°	1309	1369	1443
50°	1272	1374	1476
55°	1226	1392	1517
60°	1165	1406	1551
65°	1076	1424	1571
70°	957	1434	1406
75°	770	1289	1125
80°	603	903	735
85°	414	262	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	3.2
10°-20°	141.6	9.1
20°-30°	215.6	13.8
30°-40°	262.6	16.9
40°-50°	278.6	17.9
50°-60°	263.0	16.9
60°-70°	212.3	13.6
70°-80°	115.2	7.4
80°-90°	18.6	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°	406.6	26.1
0°-40°	669.2	43.0
0°-60°	1210.9	77.8
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	522	520	517	520	519	50
15°	502	501	500	503	503	142
25°	466	464	466	470	472	214
35°	412	414	418	427	428	258
45°	344	349	360	373	379	265
55°	261	272	297	316	323	233
65°	169	190	224	242	247	167
75°	74	108	124	112	108	81
85°	13	15	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°	521.5	521.5	521.5	521.5	521.5
2.5°	523.9	521.5	517.8	521.5	520.3
5°	521.5	520.3	516.6	520.3	519.0
7.5°	517.8	517.8	514.2	516.6	516.6
10°	514.2	513.0	510.5	514.2	513.0
12.5°	508.1	506.9	505.7	509.3	508.1
15°	502.0	500.8	499.6	503.2	503.2
17.5°	494.7	493.5	492.3	497.2	497.2
20°	485.0	485.0	485.0	489.9	488.7
22.5°	475.3	475.3	476.5	481.4	480.1
25°	465.6	464.3	465.6	470.4	471.6
27.5°	453.4	454.6	455.8	460.7	461.9
30°	441.3	442.5	443.7	449.8	451.0
32.5°	426.7	429.1	431.5	438.8	438.8
35°	412.1	414.5	418.2	426.7	427.9
37.5°	396.3	398.7	403.6	413.3	415.7
40°	379.3	382.9	390.2	399.9	403.6
42.5°	362.2	367.1	375.6	386.6	391.4
45°	344.0	348.9	359.8	373.2	379.3
47.5°	324.6	330.6	344.0	361.0	365.9
50°	303.9	312.4	328.2	346.4	352.5
52.5°	283.2	293.0	312.4	331.9	337.9
55°	261.3	272.3	296.6	316.0	323.3
57.5°	239.5	251.6	279.6	300.2	307.5
60°	216.4	231.0	261.3	282.0	288.1
62.5°	193.3	210.3	243.1	263.8	268.6
65°	169.0	189.6	223.7	241.9	246.8
67.5°	145.9	170.2	204.2	217.6	217.6
70°	121.6	148.3	182.3	186.0	178.7
72.5°	97.2	127.6	158.0	144.7	138.6
75°	74.1	108.2	124.0	111.8	108.2
77.5°	55.9	87.5	87.5	80.2	77.8
80°	38.9	66.9	58.3	51.1	47.4
82.5°	25.5	37.7	30.4	24.3	20.7
85°	13.4	14.6	8.5	7.3	6.1
87.5°	4.9	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)