

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: P275857

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275857
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: 14CZ2-29-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1516.0 lumens
Efficiency: N/A
Efficacy: 69.1 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

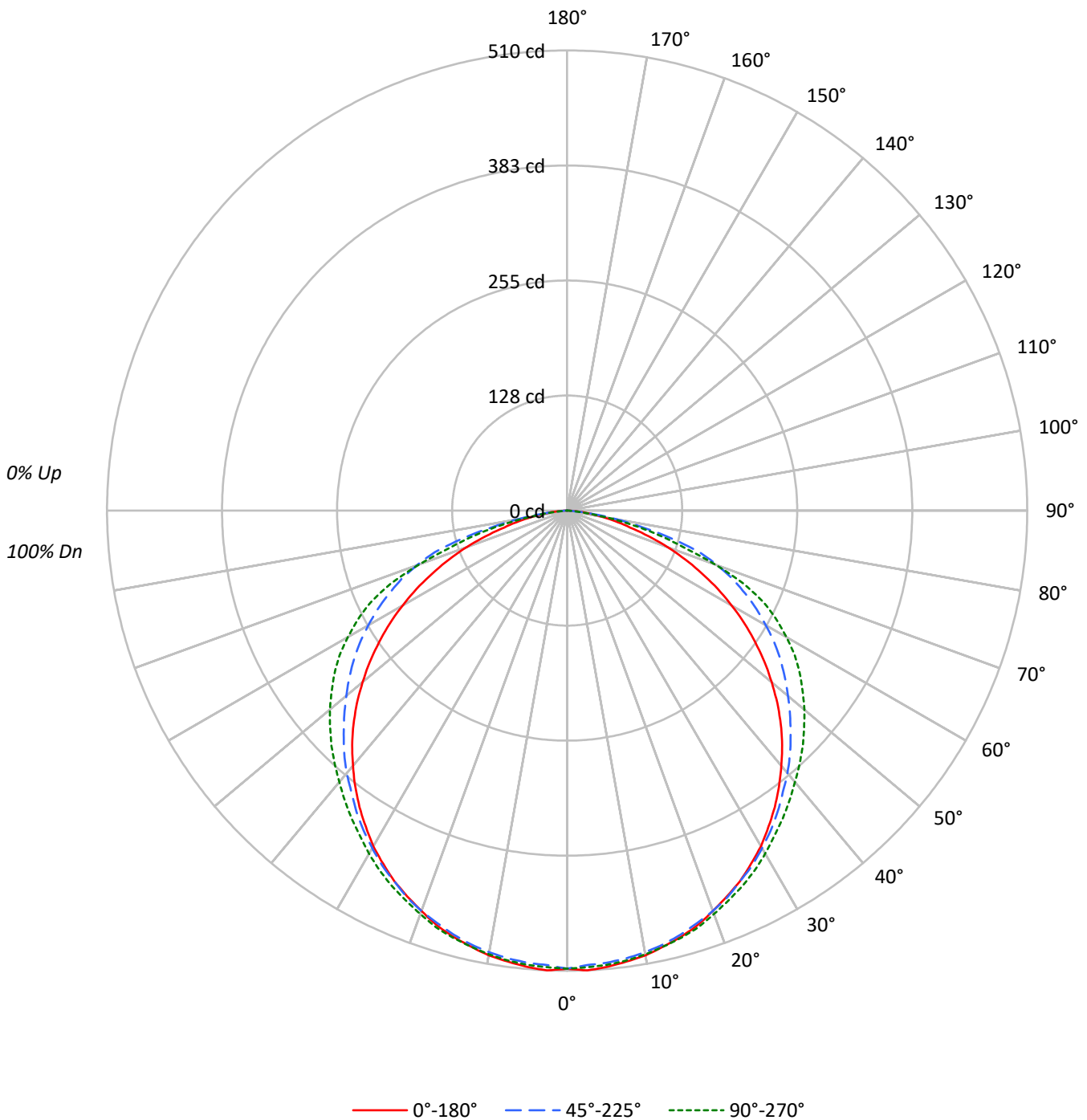
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1366	1366	1366
5°	1371	1359	1365
10°	1368	1358	1365
15°	1362	1355	1365
20°	1352	1352	1363
25°	1346	1346	1363
30°	1335	1342	1364
35°	1318	1337	1369
40°	1297	1335	1380
45°	1275	1333	1405
50°	1239	1338	1437
55°	1194	1355	1477
60°	1134	1370	1510
65°	1047	1387	1530
70°	932	1397	1369
75°	751	1255	1095
80°	587	880	716
85°	401	256	182



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.2
10°-20°	137.9	9.1
20°-30°	210.0	13.8
30°-40°	255.7	16.9
40°-50°	271.3	17.9
50°-60°	256.0	16.9
60°-70°	206.7	13.6
70°-80°	112.1	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°	395.9	26.1
0°-40°	651.6	43.0
0°-60°	1179.0	77.8
0°-90°	1516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	508	507	503	507	505	48
15°	489	488	486	490	490	138
25°	453	452	453	458	459	209
35°	401	404	407	415	417	251
45°	335	340	350	363	369	258
55°	254	265	289	308	315	227
65°	164	185	218	236	240	163
75°	72	105	121	109	105	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°	507.7	507.7	507.7	507.7	507.7
2.5°	510.1	507.7	504.2	507.7	506.6
5°	507.7	506.6	503.0	506.6	505.4
7.5°	504.2	504.2	500.6	503.0	503.0
10°	500.6	499.5	497.1	500.6	499.5
12.5°	494.7	493.5	492.4	495.9	494.7
15°	488.8	487.6	486.4	490.0	490.0
17.5°	481.7	480.5	479.3	484.1	484.1
20°	472.2	472.2	472.2	477.0	475.8
22.5°	462.8	462.8	464.0	468.7	467.5
25°	453.3	452.1	453.3	458.0	459.2
27.5°	441.5	442.7	443.8	448.6	449.8
30°	429.6	430.8	432.0	437.9	439.1
32.5°	415.4	417.8	420.2	427.3	427.3
35°	401.2	403.6	407.1	415.4	416.6
37.5°	385.8	388.2	392.9	402.4	404.8
40°	369.3	372.8	379.9	389.4	392.9
42.5°	352.7	357.4	365.7	376.4	381.1
45°	334.9	339.7	350.3	363.4	369.3
47.5°	316.0	321.9	334.9	351.5	356.3
50°	295.9	304.2	319.6	337.3	343.2
52.5°	275.8	285.2	304.2	323.1	329.0
55°	254.5	265.1	288.8	307.7	314.8
57.5°	233.2	245.0	272.2	292.3	299.4
60°	210.7	224.9	254.5	274.6	280.5
62.5°	188.2	204.8	236.7	256.8	261.6
65°	164.5	184.6	217.8	235.5	240.3
67.5°	142.0	165.7	198.8	211.9	211.9
70°	118.4	144.4	177.5	181.1	174.0
72.5°	94.7	124.3	153.9	140.8	134.9
75°	72.2	105.3	120.7	108.9	105.3
77.5°	54.4	85.2	85.2	78.1	75.7
80°	37.9	65.1	56.8	49.7	46.2
82.5°	24.9	36.7	29.6	23.7	20.1
85°	13.0	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)