

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: P275859

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275859
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1643.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

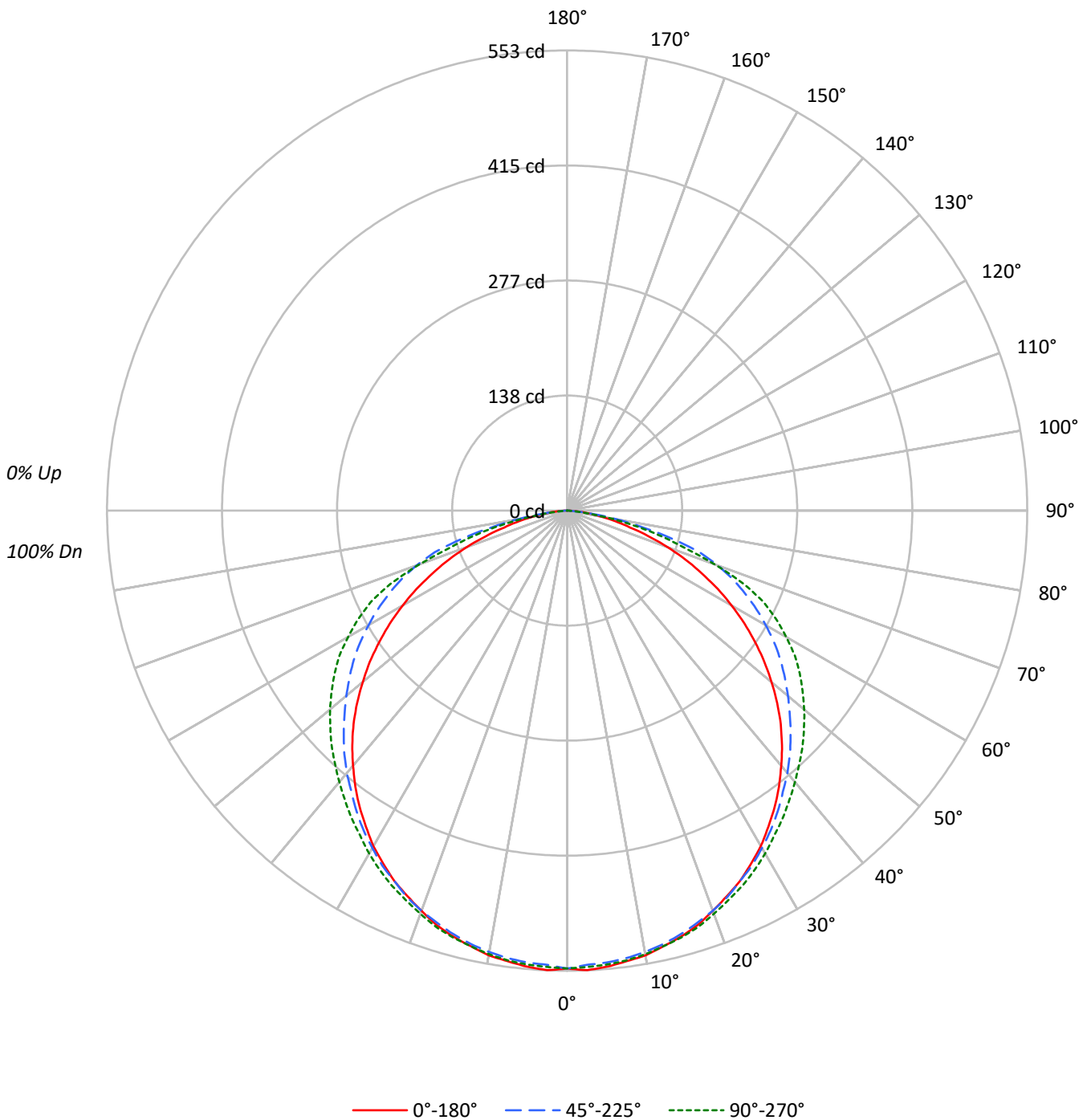
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1481	1481	1481
5°	1487	1473	1479
10°	1483	1472	1479
15°	1476	1469	1479
20°	1466	1466	1477
25°	1459	1459	1478
30°	1447	1455	1479
35°	1428	1450	1483
40°	1406	1446	1496
45°	1381	1445	1523
50°	1343	1450	1557
55°	1294	1468	1601
60°	1229	1484	1636
65°	1135	1503	1658
70°	1009	1514	1484
75°	813	1360	1187
80°	635	955	775
85°	435	278	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.2
10°-20°	149.4	9.1
20°-30°	227.5	13.8
30°-40°	277.1	16.9
40°-50°	294.0	17.9
50°-60°	277.5	16.9
60°-70°	224.1	13.6
70°-80°	121.6	7.4
80°-90°	19.7	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°	429.1	26.1
0°-40°	706.2	43.0
0°-60°	1277.7	77.8
0°-90°	1643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	550	549	545	549	548	52
15°	530	528	527	531	531	149
25°	491	490	491	496	498	226
35°	435	437	441	450	452	272
45°	363	368	380	394	400	280
55°	276	287	313	334	341	246
65°	178	200	236	255	260	177
75°	78	114	131	118	114	85
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°	550.3	550.3	550.3	550.3	550.3
2.5°	552.8	550.3	546.4	550.3	549.0
5°	550.3	549.0	545.2	549.0	547.7
7.5°	546.4	546.4	542.6	545.2	545.2
10°	542.6	541.3	538.7	542.6	541.3
12.5°	536.2	534.9	533.6	537.5	536.2
15°	529.8	528.5	527.2	531.0	531.0
17.5°	522.1	520.8	519.5	524.6	524.6
20°	511.8	511.8	511.8	516.9	515.6
22.5°	501.5	501.5	502.8	508.0	506.7
25°	491.3	490.0	491.3	496.4	497.7
27.5°	478.5	479.7	481.0	486.1	487.4
30°	465.6	466.9	468.2	474.6	475.9
32.5°	450.2	452.8	455.4	463.1	463.1
35°	434.8	437.4	441.3	450.2	451.5
37.5°	418.2	420.7	425.9	436.1	438.7
40°	400.2	404.1	411.7	422.0	425.9
42.5°	382.2	387.4	396.4	407.9	413.0
45°	363.0	368.1	379.7	393.8	400.2
47.5°	342.5	348.9	363.0	381.0	386.1
50°	320.7	329.7	346.3	365.6	372.0
52.5°	298.9	309.1	329.7	350.2	356.6
55°	275.8	287.3	313.0	333.5	341.2
57.5°	252.7	265.5	295.0	316.8	324.5
60°	228.3	243.7	275.8	297.6	304.0
62.5°	204.0	221.9	256.5	278.3	283.5
65°	178.3	200.1	236.0	255.3	260.4
67.5°	153.9	179.6	215.5	229.6	229.6
70°	128.3	156.5	192.4	196.3	188.6
72.5°	102.6	134.7	166.8	152.6	146.2
75°	78.2	114.2	130.8	118.0	114.2
77.5°	59.0	92.4	92.4	84.7	82.1
80°	41.0	70.5	61.6	53.9	50.0
82.5°	26.9	39.8	32.1	25.7	21.8
85°	14.1	15.4	9.0	7.7	6.4
87.5°	5.1	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)