

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: P275801

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275801
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1627.0 lumens
Efficiency: N/A
Efficacy: 85.3 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

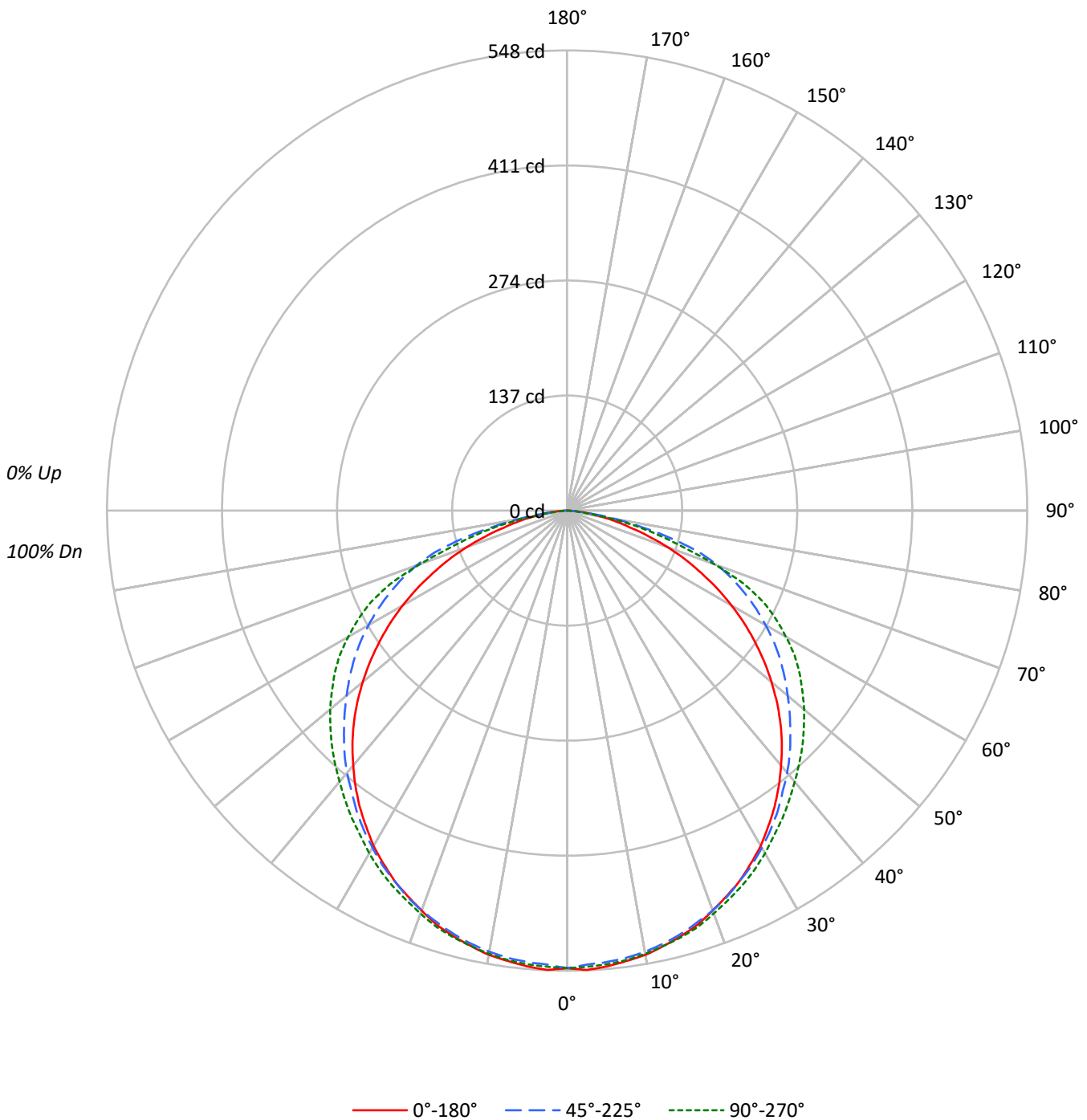
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1466	1466	1466
5°	1472	1458	1465
10°	1468	1458	1465
15°	1461	1455	1465
20°	1451	1451	1462
25°	1444	1444	1463
30°	1433	1441	1464
35°	1415	1436	1469
40°	1392	1432	1481
45°	1368	1431	1508
50°	1330	1436	1542
55°	1281	1454	1585
60°	1217	1470	1620
65°	1124	1488	1642
70°	999	1499	1469
75°	806	1347	1175
80°	629	945	767
85°	432	275	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.2
10°-20°	148.0	9.1
20°-30°	225.3	13.8
30°-40°	274.4	16.9
40°-50°	291.2	17.9
50°-60°	274.8	16.9
60°-70°	221.9	13.6
70°-80°	120.4	7.4
80°-90°	19.5	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°	424.9	26.1
0°-40°	699.3	43.0
0°-60°	1265.3	77.8
0°-90°	1627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	545	544	540	544	542	52
15°	525	523	522	526	526	148
25°	486	485	486	492	493	224
35°	431	433	437	446	447	269
45°	360	365	376	390	396	277
55°	273	284	310	330	338	244
65°	177	198	234	253	258	175
75°	78	113	130	117	113	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°	544.9	544.9	544.9	544.9	544.9
2.5°	547.5	544.9	541.1	544.9	543.7
5°	544.9	543.7	539.8	543.7	542.4
7.5°	541.1	541.1	537.3	539.8	539.8
10°	537.3	536.0	533.5	537.3	536.0
12.5°	531.0	529.7	528.4	532.2	531.0
15°	524.6	523.3	522.1	525.9	525.9
17.5°	517.0	515.7	514.4	519.5	519.5
20°	506.8	506.8	506.8	511.9	510.6
22.5°	496.7	496.7	497.9	503.0	501.7
25°	486.5	485.2	486.5	491.6	492.8
27.5°	473.8	475.1	476.3	481.4	482.7
30°	461.1	462.4	463.6	470.0	471.3
32.5°	445.8	448.4	450.9	458.5	458.5
35°	430.6	433.1	437.0	445.8	447.1
37.5°	414.1	416.6	421.7	431.9	434.4
40°	396.3	400.1	407.7	417.9	421.7
42.5°	378.5	383.6	392.5	403.9	409.0
45°	359.5	364.6	376.0	390.0	396.3
47.5°	339.1	345.5	359.5	377.3	382.3
50°	317.6	326.4	343.0	362.0	368.4
52.5°	296.0	306.1	326.4	346.8	353.1
55°	273.1	284.5	309.9	330.3	337.9
57.5°	250.2	262.9	292.2	313.7	321.4
60°	226.1	241.3	273.1	294.7	301.0
62.5°	202.0	219.7	254.0	275.6	280.7
65°	176.6	198.2	233.7	252.8	257.9
67.5°	152.4	177.8	213.4	227.4	227.4
70°	127.0	155.0	190.5	194.3	186.7
72.5°	101.6	133.4	165.1	151.2	144.8
75°	77.5	113.0	129.6	116.9	113.0
77.5°	58.4	91.5	91.5	83.8	81.3
80°	40.6	69.9	61.0	53.3	49.5
82.5°	26.7	39.4	31.8	25.4	21.6
85°	14.0	15.2	8.9	7.6	6.4
87.5°	5.1	2.5	1.3	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)