

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: P275858

Luminaire Tested: **14CZ2-29-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275858
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 71.6 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

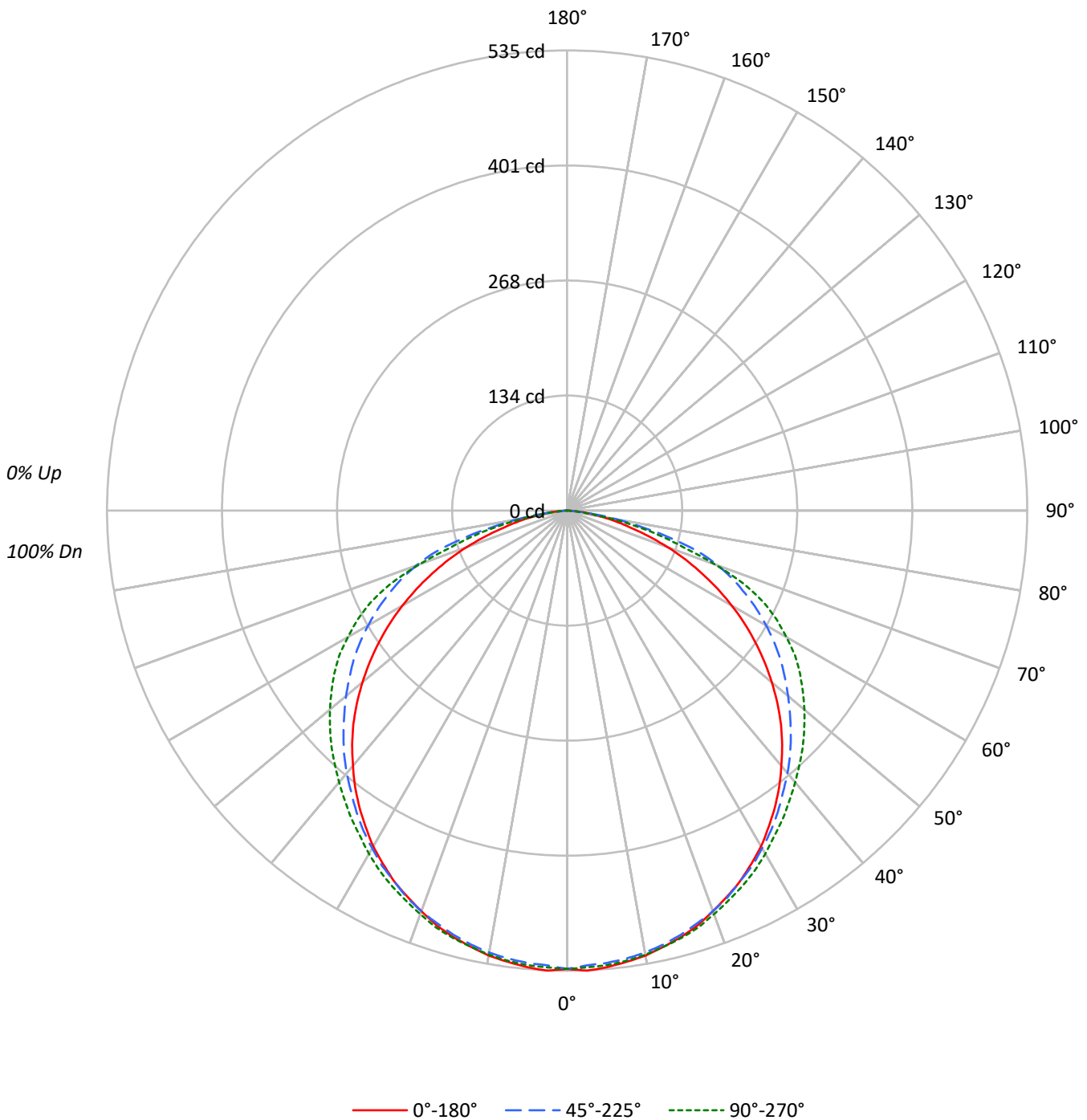
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1434	1434	1434
5°	1440	1426	1433
10°	1436	1426	1432
15°	1429	1422	1433
20°	1419	1419	1430
25°	1412	1412	1431
30°	1401	1409	1432
35°	1383	1404	1436
40°	1361	1401	1449
45°	1338	1399	1475
50°	1300	1404	1508
55°	1253	1422	1550
60°	1190	1438	1584
65°	1100	1455	1605
70°	977	1466	1437
75°	788	1317	1149
80°	615	924	750
85°	423	269	191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	3.2
10°-20°	144.7	9.1
20°-30°	220.3	13.8
30°-40°	268.4	16.9
40°-50°	284.7	17.9
50°-60°	268.7	16.9
60°-70°	217.0	13.6
70°-80°	117.7	7.4
80°-90°	19.0	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°	415.5	26.1
0°-40°	683.9	43.0
0°-60°	1237.3	77.8
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	533	532	528	532	530	51
15°	513	512	510	514	514	145
25°	476	474	476	481	482	219
35°	421	424	427	436	437	263
45°	352	356	368	381	388	271
55°	267	278	303	323	330	239
65°	173	194	228	247	252	171
75°	76	110	127	114	110	83
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°	532.9	532.9	532.9	532.9	532.9
2.5°	535.4	532.9	529.1	532.9	531.6
5°	532.9	531.6	527.9	531.6	530.4
7.5°	529.1	529.1	525.4	527.9	527.9
10°	525.4	524.2	521.7	525.4	524.2
12.5°	519.2	518.0	516.7	520.4	519.2
15°	513.0	511.8	510.5	514.2	514.2
17.5°	505.5	504.3	503.1	508.0	508.0
20°	495.6	495.6	495.6	500.6	499.3
22.5°	485.7	485.7	486.9	491.9	490.6
25°	475.7	474.5	475.7	480.7	481.9
27.5°	463.3	464.6	465.8	470.8	472.0
30°	450.9	452.1	453.4	459.6	460.8
32.5°	436.0	438.5	441.0	448.4	448.4
35°	421.1	423.6	427.3	436.0	437.2
37.5°	404.9	407.4	412.4	422.3	424.8
40°	387.5	391.3	398.7	408.7	412.4
42.5°	370.1	375.1	383.8	395.0	400.0
45°	351.5	356.5	367.7	381.3	387.5
47.5°	331.6	337.9	351.5	368.9	373.9
50°	310.5	319.2	335.4	354.0	360.2
52.5°	289.4	299.3	319.2	339.1	345.3
55°	267.1	278.2	303.1	322.9	330.4
57.5°	244.7	257.1	285.7	306.8	314.3
60°	221.1	236.0	267.1	288.2	294.4
62.5°	197.5	214.9	248.4	269.5	274.5
65°	172.7	193.8	228.5	247.2	252.1
67.5°	149.1	173.9	208.7	222.3	222.3
70°	124.2	151.5	186.3	190.0	182.6
72.5°	99.4	130.4	161.5	147.8	141.6
75°	75.8	110.5	126.7	114.3	110.5
77.5°	57.1	89.4	89.4	82.0	79.5
80°	39.7	68.3	59.6	52.2	48.4
82.5°	26.1	38.5	31.1	24.8	21.1
85°	13.7	14.9	8.7	7.5	6.2
87.5°	5.0	2.5	1.2	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)