

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: P275820

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275820
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: 14CZ2-39-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2265.0 lumens
Efficiency: N/A
Efficacy: 73.1 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

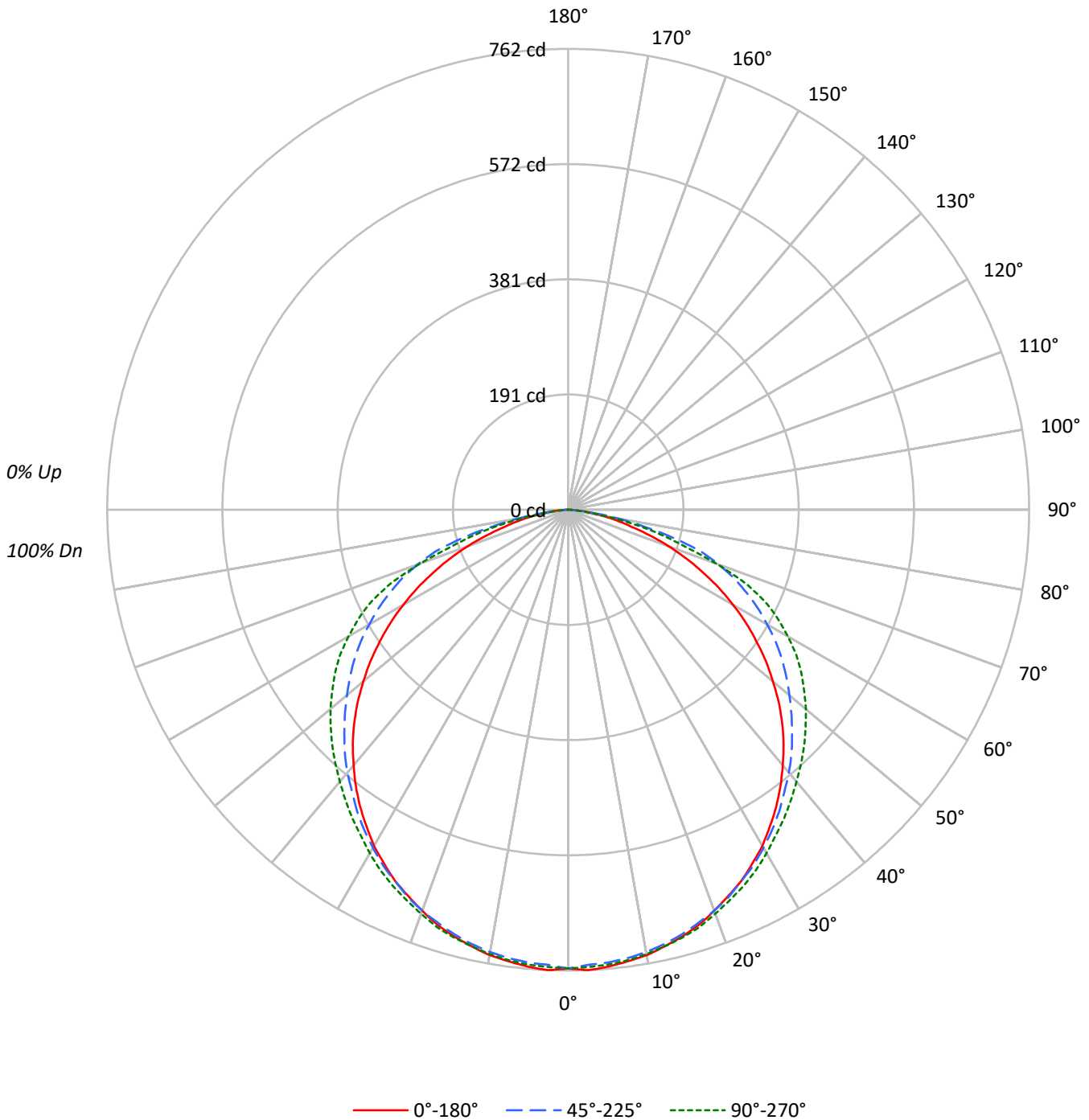
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275820

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P275820

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-2700K

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°	2041	2041	2041
5°	2049	2030	2040
10°	2044	2029	2039
15°	2035	2025	2040
20°	2021	2021	2036
25°	2011	2011	2037
30°	1995	2005	2038
35°	1969	1998	2045
40°	1938	1994	2062
45°	1904	1992	2100
50°	1851	1999	2147
55°	1784	2024	2207
60°	1694	2046	2256
65°	1565	2072	2286
70°	1391	2087	2045
75°	1122	1876	1637
80°	877	1316	1069
85°	602	383	272



TEST NUMBER: P275820

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.2
10°-20°	206.0	9.1
20°-30°	313.7	13.8
30°-40°	382.1	16.9
40°-50°	405.3	17.9
50°-60°	382.6	16.9
60°-70°	308.9	13.6
70°-80°	167.6	7.4
80°-90°	27.1	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°	591.5	26.1
0°-40°	973.6	43.0
0°-60°	1761.5	77.8
0°-90°	2265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	759	757	752	757	755	72
15°	730	728	727	732	732	206
25°	677	676	677	684	686	312
35°	600	603	608	621	622	375
45°	500	508	523	543	552	385
55°	380	396	432	460	470	340
65°	246	276	325	352	359	244
75°	108	157	180	163	157	118
85°	20	21	12	11	9	25
90°	0	0	0	0	0	



TEST NUMBER: P275820

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.6	758.6	758.6	758.6	758.6
2.5°	762.1	758.6	753.3	758.6	756.8
5°	758.6	756.8	751.5	756.8	755.1
7.5°	753.3	753.3	748.0	751.5	751.5
10°	748.0	746.2	742.7	748.0	746.2
12.5°	739.2	737.4	735.6	740.9	739.2
15°	730.3	728.5	726.8	732.1	732.1
17.5°	719.7	717.9	716.2	723.2	723.2
20°	705.6	705.6	705.6	712.6	710.9
22.5°	691.4	691.4	693.2	700.3	698.5
25°	677.3	675.5	677.3	684.3	686.1
27.5°	659.6	661.3	663.1	670.2	672.0
30°	641.9	643.7	645.4	654.3	656.0
32.5°	620.7	624.2	627.8	638.4	638.4
35°	599.5	603.0	608.3	620.7	622.4
37.5°	576.5	580.0	587.1	601.2	604.8
40°	551.7	557.0	567.6	581.8	587.1
42.5°	527.0	534.0	546.4	562.3	569.4
45°	500.4	507.5	523.4	542.9	551.7
47.5°	472.1	481.0	500.4	525.2	532.3
50°	442.1	454.5	477.4	504.0	512.8
52.5°	412.0	426.2	454.5	482.7	491.6
55°	380.2	396.1	431.5	459.8	470.4
57.5°	348.4	366.0	406.7	436.8	447.4
60°	314.8	336.0	380.2	410.2	419.1
62.5°	281.2	305.9	353.7	383.7	390.8
65°	245.8	275.9	325.4	351.9	359.0
67.5°	212.2	247.6	297.1	316.5	316.5
70°	176.8	215.7	265.2	270.6	259.9
72.5°	141.5	185.7	229.9	210.4	201.6
75°	107.9	157.4	180.4	162.7	157.4
77.5°	81.3	127.3	127.3	116.7	113.2
80°	56.6	97.3	84.9	74.3	69.0
82.5°	37.1	54.8	44.2	35.4	30.1
85°	19.5	21.2	12.4	10.6	8.8
87.5°	7.1	3.5	1.8	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)