

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: P275455

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2167.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

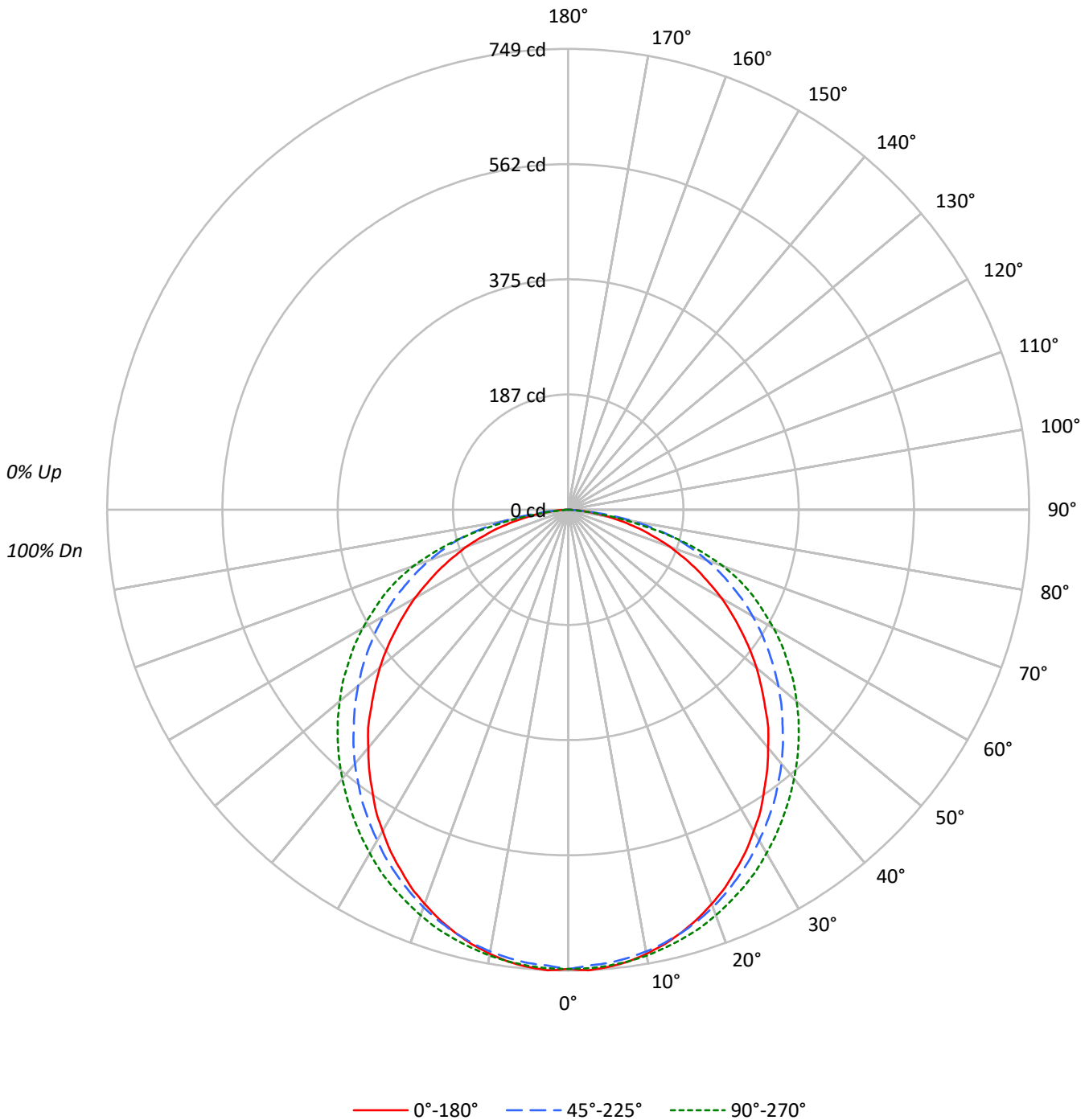
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275455

CATALOG NUMBER: 14CZ2-20-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P275455

CATALOG NUMBER: 14CZ2-20-UNV-L82765-W2A1-U-5700K

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2009	2009	2009
5°	2015	1998	2010
10°	2003	1992	2011
15°	1982	1983	2010
20°	1952	1969	2009
25°	1915	1950	2007
30°	1874	1929	2003
35°	1824	1913	2002
40°	1775	1894	2005
45°	1721	1874	2015
50°	1671	1865	2029
55°	1607	1859	2047
60°	1550	1862	2075
65°	1471	1868	2108
70°	1380	1882	2106
75°	1251	1899	1904
80°	1026	1640	1356
85°	760	775	312



TEST NUMBER: P275455

CATALOG NUMBER: 14CZ2-20-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.3
10°-20°	201.8	9.3
20°-30°	304.0	14.0
30°-40°	364.8	16.8
40°-50°	380.2	17.5
50°-60°	352.0	16.2
60°-70°	284.4	13.1
70°-80°	173.4	8.0
80°-90°	35.8	1.7
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°	576.4	26.6
0°-40°	941.2	43.4
0°-60°	1673.4	77.2
0°-90°	2167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	746	744	740	745	744	71
15°	711	712	712	721	721	201
25°	645	649	657	673	676	297
35°	555	564	582	604	609	348
45°	452	466	492	520	530	350
55°	343	360	396	427	436	307
65°	231	254	293	323	331	228
75°	120	147	183	186	183	126
85°	25	37	25	14	10	30
90°	0	0	0	0	0	



TEST NUMBER: P275455

CATALOG NUMBER: 14CZ2-20-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.5	746.5	746.5	746.5	746.5
2.5°	749.4	747.0	741.7	747.0	746.1
5°	746.1	744.1	739.8	745.1	744.1
7.5°	741.2	739.3	735.4	741.7	740.7
10°	733.0	732.0	729.1	736.4	735.9
12.5°	723.3	722.9	721.4	729.6	729.1
15°	711.3	711.7	711.7	721.4	721.4
17.5°	697.7	698.7	700.6	711.3	712.7
20°	681.8	683.7	687.6	699.7	701.6
22.5°	665.4	666.8	672.6	687.1	689.0
25°	645.1	648.9	656.7	673.1	676.0
27.5°	625.7	629.1	639.8	656.7	661.5
30°	603.0	608.3	620.9	639.3	644.6
32.5°	581.3	587.1	601.6	622.8	627.7
35°	555.2	563.9	582.3	603.5	609.3
37.5°	531.5	539.7	560.5	583.7	590.5
40°	505.4	515.6	539.2	563.9	570.7
42.5°	481.3	490.9	516.5	541.7	550.8
45°	452.3	465.8	492.4	519.9	529.6
47.5°	425.7	439.2	469.7	499.1	507.8
50°	399.1	413.6	445.5	475.9	484.6
52.5°	371.6	387.0	421.3	451.8	461.9
55°	342.6	360.5	396.2	427.1	436.3
57.5°	315.0	333.4	371.6	403.0	412.2
60°	288.0	306.8	346.0	375.9	385.6
62.5°	258.0	280.3	320.8	350.3	357.6
65°	231.0	253.7	293.3	322.8	331.0
67.5°	202.5	227.1	266.7	293.8	301.5
70°	175.4	201.0	239.2	264.3	267.7
72.5°	146.4	172.5	211.2	227.1	227.1
75°	120.3	146.9	182.6	185.5	183.1
77.5°	91.8	121.3	144.5	138.7	132.9
80°	66.2	95.2	105.8	95.2	87.5
82.5°	44.5	69.1	63.8	50.7	44.9
85°	24.6	36.7	25.1	14.0	10.1
87.5°	9.2	8.2	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)