

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: P275508

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275508
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

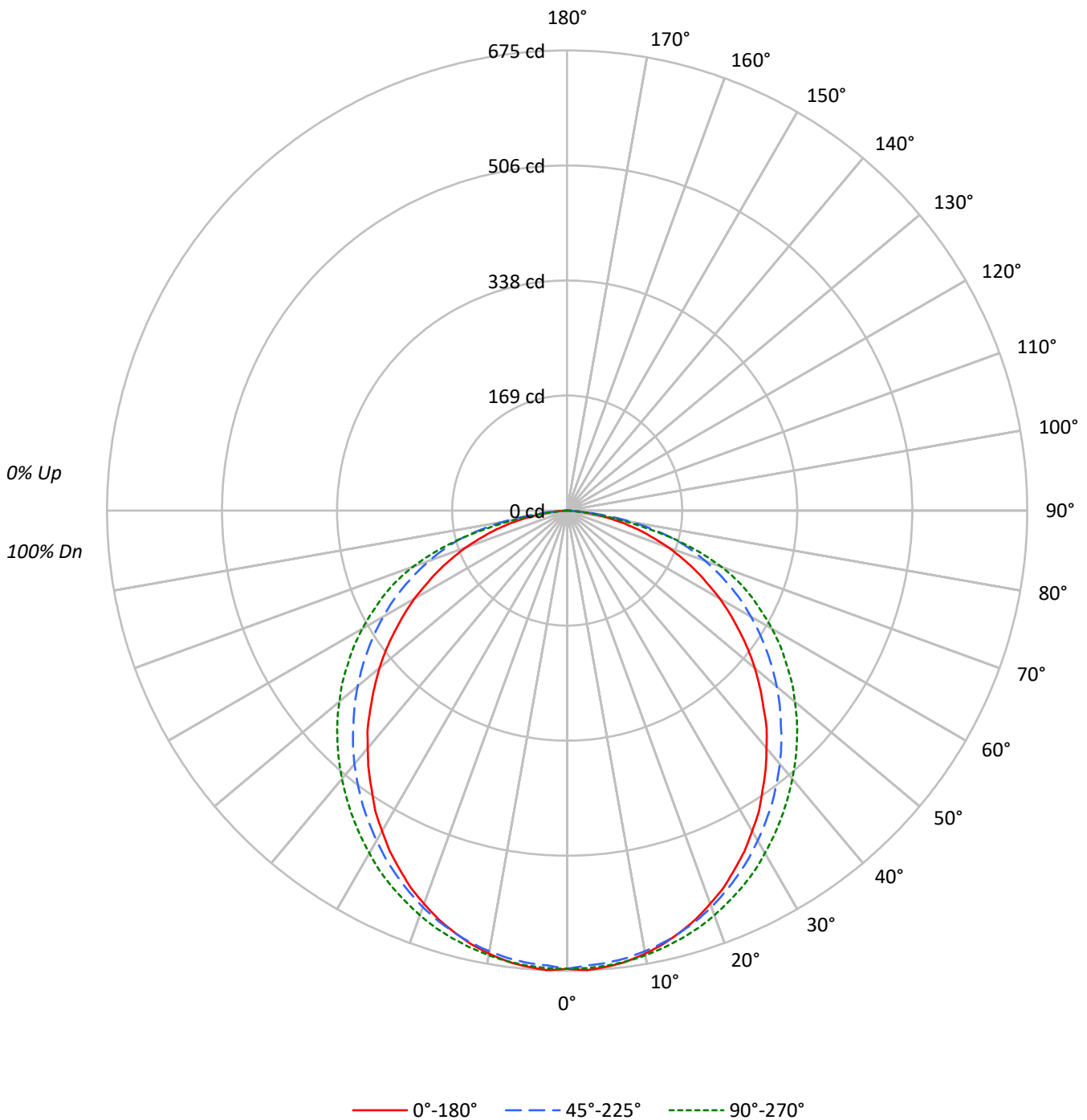
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1809	1809	1809
5°	1814	1799	1810
10°	1803	1794	1811
15°	1784	1785	1809
20°	1758	1773	1809
25°	1724	1755	1807
30°	1687	1737	1803
35°	1642	1722	1802
40°	1598	1705	1805
45°	1550	1687	1815
50°	1504	1679	1827
55°	1447	1673	1843
60°	1396	1676	1869
65°	1324	1682	1897
70°	1242	1694	1896
75°	1126	1709	1714
80°	924	1477	1220
85°	685	698	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.3
10°-20°	181.7	9.3
20°-30°	273.7	14.0
30°-40°	328.4	16.8
40°-50°	342.3	17.5
50°-60°	316.9	16.2
60°-70°	256.1	13.1
70°-80°	156.1	8.0
80°-90°	32.2	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°	519.0	26.6
0°-40°	847.4	43.4
0°-60°	1506.6	77.2
0°-90°	1951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	672	670	666	671	670	64
15°	640	641	641	650	650	181
25°	581	584	591	606	609	268
35°	500	508	524	543	549	313
45°	407	419	443	468	477	315
55°	308	324	357	385	393	276
65°	208	228	264	291	298	206
75°	108	132	164	167	165	114
85°	22	33	23	13	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.1	672.1	672.1	672.1	672.1
2.5°	674.7	672.6	667.8	672.6	671.7
5°	671.7	670.0	666.0	670.8	670.0
7.5°	667.3	665.6	662.1	667.8	666.9
10°	659.9	659.1	656.5	663.0	662.6
12.5°	651.2	650.8	649.5	656.9	656.5
15°	640.4	640.8	640.8	649.5	649.5
17.5°	628.2	629.1	630.8	640.4	641.7
20°	613.8	615.6	619.1	629.9	631.7
22.5°	599.0	600.3	605.6	618.6	620.4
25°	580.8	584.2	591.2	606.0	608.6
27.5°	563.4	566.4	576.0	591.2	595.6
30°	542.9	547.7	559.0	575.5	580.3
32.5°	523.3	528.6	541.6	560.8	565.1
35°	499.9	507.7	524.2	543.4	548.6
37.5°	478.5	485.9	504.6	525.5	531.6
40°	455.0	464.2	485.5	507.7	513.8
42.5°	433.3	442.0	465.1	487.7	495.9
45°	407.2	419.4	443.3	468.1	476.8
47.5°	383.3	395.4	422.9	449.4	457.2
50°	359.3	372.4	401.1	428.5	436.3
52.5°	334.5	348.5	379.3	406.8	415.9
55°	308.4	324.5	356.7	384.6	392.8
57.5°	283.6	300.2	334.5	362.8	371.1
60°	259.3	276.2	311.5	338.5	347.2
62.5°	232.3	252.3	288.9	315.4	321.9
65°	207.9	228.4	264.1	290.6	298.0
67.5°	182.3	204.5	240.1	264.5	271.5
70°	157.9	181.0	215.3	238.0	241.0
72.5°	131.8	155.3	190.1	204.5	204.5
75°	108.3	132.3	164.4	167.1	164.9
77.5°	82.7	109.2	130.1	124.9	119.6
80°	59.6	85.7	95.3	85.7	78.7
82.5°	40.0	62.2	57.4	45.7	40.5
85°	22.2	33.1	22.6	12.6	9.1
87.5°	8.3	7.4	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)