

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: P275623

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2190.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

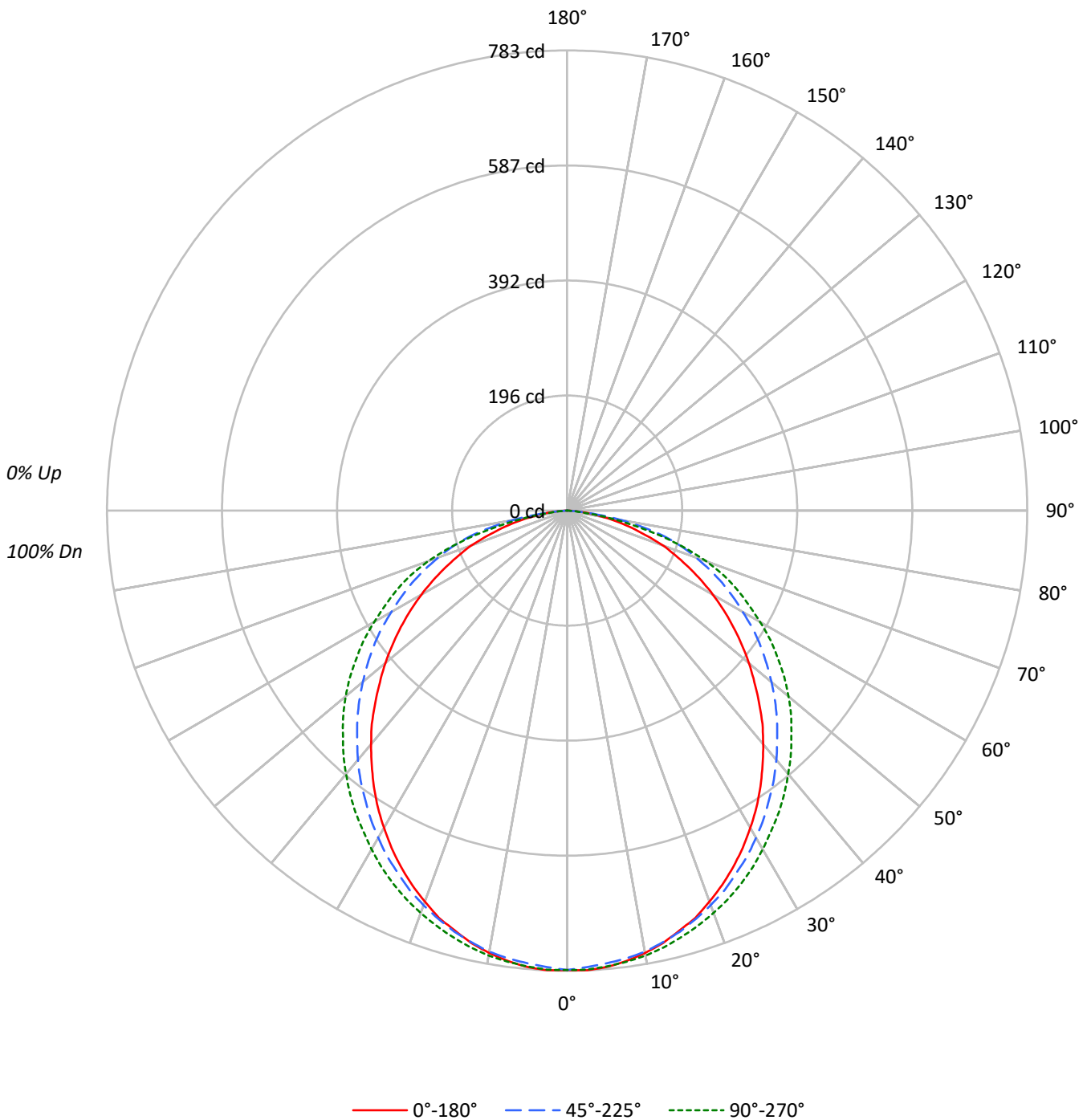
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2104	2104	2104
5°	2106	2088	2103
10°	2089	2083	2101
15°	2060	2066	2093
20°	2027	2046	2086
25°	1986	2021	2080
30°	1937	1997	2068
35°	1883	1969	2062
40°	1823	1945	2056
45°	1756	1921	2054
50°	1691	1900	2059
55°	1620	1885	2053
60°	1543	1858	2040
65°	1452	1853	2039
70°	1367	1837	1982
75°	1185	1795	1694
80°	959	1447	1128
85°	636	503	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.4
10°-20°	210.1	9.6
20°-30°	315.1	14.4
30°-40°	375.9	17.2
40°-50°	388.6	17.7
50°-60°	354.8	16.2
60°-70°	279.2	12.7
70°-80°	162.5	7.4
80°-90°	29.9	1.4
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°	599.0	27.4
0°-40°	974.9	44.5
0°-60°	1718.3	78.5
0°-90°	2190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	780	778	773	780	778	74
15°	739	740	742	751	751	209
25°	669	672	681	697	700	308
35°	573	581	599	622	628	358
45°	462	477	505	533	540	356
55°	345	364	402	431	438	309
65°	228	252	291	314	320	226
75°	114	141	173	169	163	121
85°	21	29	16	13	11	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.8	781.8	781.8	781.8	781.8
2.5°	782.9	780.7	777.5	782.9	781.8
5°	779.6	777.5	773.1	779.6	778.5
7.5°	773.1	770.9	768.8	775.3	774.2
10°	764.4	763.3	762.2	769.8	768.8
12.5°	753.6	753.6	752.5	761.2	761.2
15°	739.4	740.5	741.6	751.4	751.4
17.5°	726.4	725.3	728.6	739.4	740.5
20°	708.0	710.1	714.5	727.5	728.6
22.5°	689.5	691.7	699.3	712.3	715.6
25°	668.9	672.1	680.8	697.1	700.4
27.5°	647.2	651.5	663.4	680.8	684.1
30°	623.3	629.8	642.8	662.4	665.6
32.5°	599.4	605.9	622.2	641.7	646.1
35°	573.3	580.9	599.4	622.2	627.6
37.5°	546.2	555.9	577.7	600.5	607.0
40°	519.0	529.9	553.8	577.7	585.3
42.5°	491.9	502.7	528.8	555.9	563.5
45°	461.5	476.7	504.9	533.1	539.7
47.5°	432.2	448.4	479.9	508.2	516.9
50°	403.9	420.2	453.9	483.2	491.9
52.5°	374.6	392.0	427.8	458.2	465.8
55°	345.3	363.8	401.8	431.1	437.6
57.5°	316.0	335.5	374.6	402.8	410.4
60°	286.7	307.3	345.3	373.5	379.0
62.5°	257.3	279.1	318.1	343.1	348.5
65°	228.0	251.9	291.0	313.8	320.3
67.5°	199.8	223.7	261.7	283.4	288.8
70°	173.7	195.4	233.5	249.7	251.9
72.5°	141.2	168.3	205.2	213.9	208.5
75°	114.0	141.2	172.6	169.4	162.9
77.5°	86.9	114.0	134.6	123.8	115.1
80°	61.9	89.0	93.4	77.1	72.8
82.5°	40.2	61.9	52.1	40.2	32.6
85°	20.6	29.3	16.3	13.0	10.9
87.5°	6.5	4.3	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)