

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: P275624

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275624
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2195.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

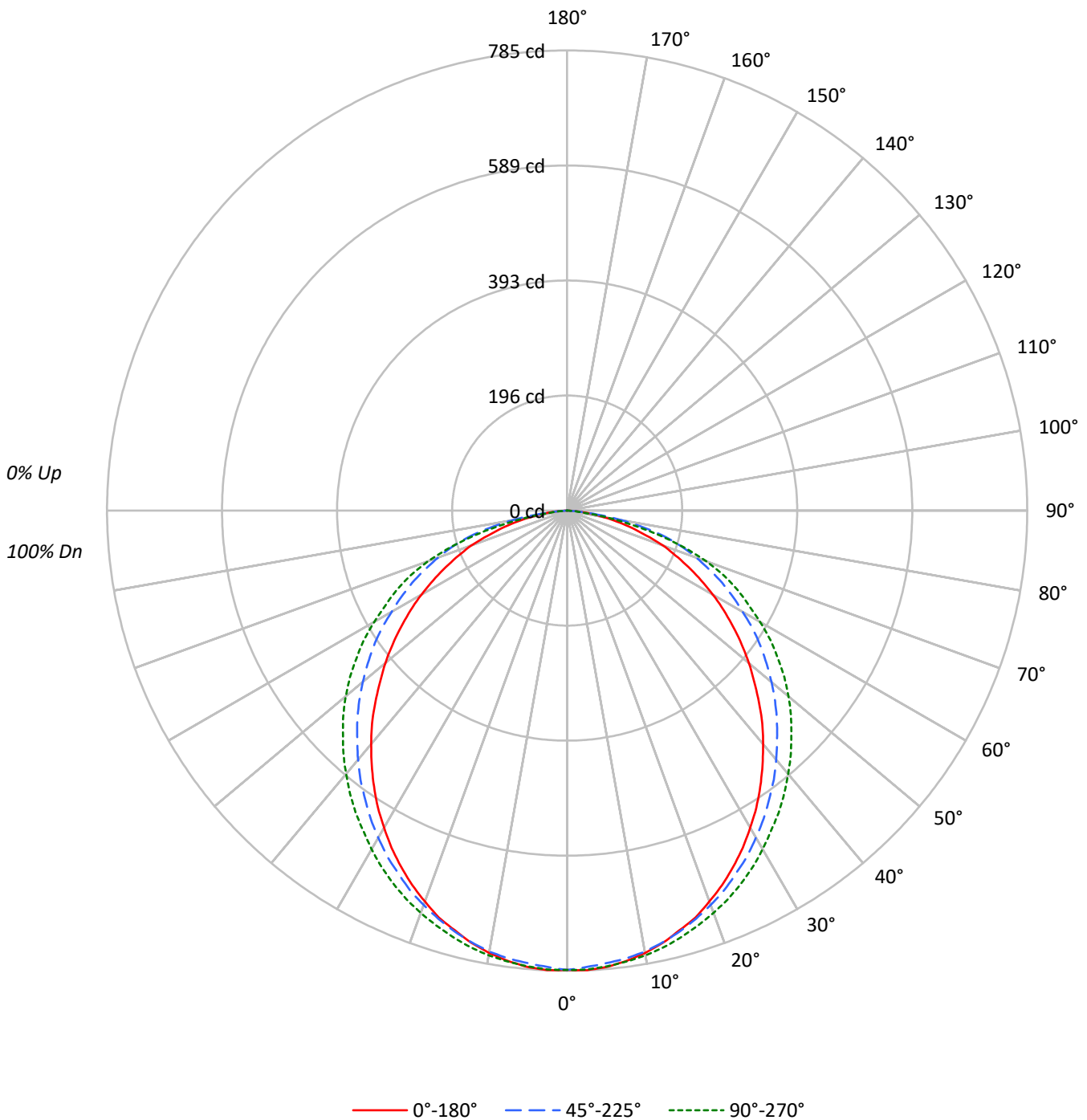
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2109	2109	2109
5°	2111	2093	2108
10°	2094	2088	2105
15°	2065	2071	2098
20°	2032	2051	2091
25°	1991	2026	2084
30°	1941	2002	2073
35°	1888	1973	2066
40°	1827	1950	2061
45°	1760	1926	2058
50°	1695	1904	2064
55°	1624	1889	2058
60°	1546	1863	2044
65°	1455	1857	2044
70°	1370	1841	1987
75°	1188	1799	1697
80°	961	1450	1130
85°	639	503	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.4
10°-20°	210.6	9.6
20°-30°	315.8	14.4
30°-40°	376.8	17.2
40°-50°	389.5	17.7
50°-60°	355.6	16.2
60°-70°	279.8	12.7
70°-80°	162.9	7.4
80°-90°	30.0	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°	600.4	27.4
0°-40°	977.1	44.5
0°-60°	1722.3	78.5
0°-90°	2195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	781	779	775	781	780	74
15°	741	742	743	753	753	209
25°	670	674	682	699	702	309
35°	575	582	601	624	629	359
45°	462	478	506	534	541	357
55°	346	365	403	432	439	309
65°	228	252	292	314	321	227
75°	114	142	173	170	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°	783.6	783.6	783.6	783.6	783.6
2.5°	784.7	782.5	779.2	784.7	783.6
5°	781.4	779.2	774.9	781.4	780.3
7.5°	774.9	772.7	770.5	777.0	776.0
10°	766.2	765.1	764.0	771.6	770.5
12.5°	755.3	755.3	754.2	762.9	762.9
15°	741.1	742.2	743.3	753.1	753.1
17.5°	728.1	727.0	730.3	741.1	742.2
20°	709.6	711.8	716.1	729.2	730.3
22.5°	691.1	693.2	700.9	713.9	717.2
25°	670.4	673.7	682.4	698.7	702.0
27.5°	648.6	653.0	665.0	682.4	685.6
30°	624.7	631.2	644.3	663.9	667.1
32.5°	600.7	607.3	623.6	643.2	647.5
35°	574.6	582.2	600.7	623.6	629.0
37.5°	547.4	557.2	579.0	601.8	608.4
40°	520.2	531.1	555.0	579.0	586.6
42.5°	493.0	503.9	530.0	557.2	564.8
45°	462.5	477.8	506.1	534.4	540.9
47.5°	433.1	449.5	481.0	509.3	518.0
50°	404.8	421.2	454.9	484.3	493.0
52.5°	375.5	392.9	428.8	459.3	466.9
55°	346.1	364.6	402.7	432.1	438.6
57.5°	316.7	336.3	375.5	403.8	411.4
60°	287.3	308.0	346.1	374.4	379.8
62.5°	257.9	279.7	318.9	343.9	349.3
65°	228.5	252.5	291.7	314.5	321.0
67.5°	200.2	224.2	262.3	284.0	289.5
70°	174.1	195.9	234.0	250.3	252.5
72.5°	141.5	168.7	205.7	214.4	209.0
75°	114.3	141.5	173.0	169.8	163.2
77.5°	87.1	114.3	134.9	124.1	115.4
80°	62.0	89.2	93.6	77.3	72.9
82.5°	40.3	62.0	52.2	40.3	32.6
85°	20.7	29.4	16.3	13.1	10.9
87.5°	6.5	4.4	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)