

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: P275676

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275676
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1972.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

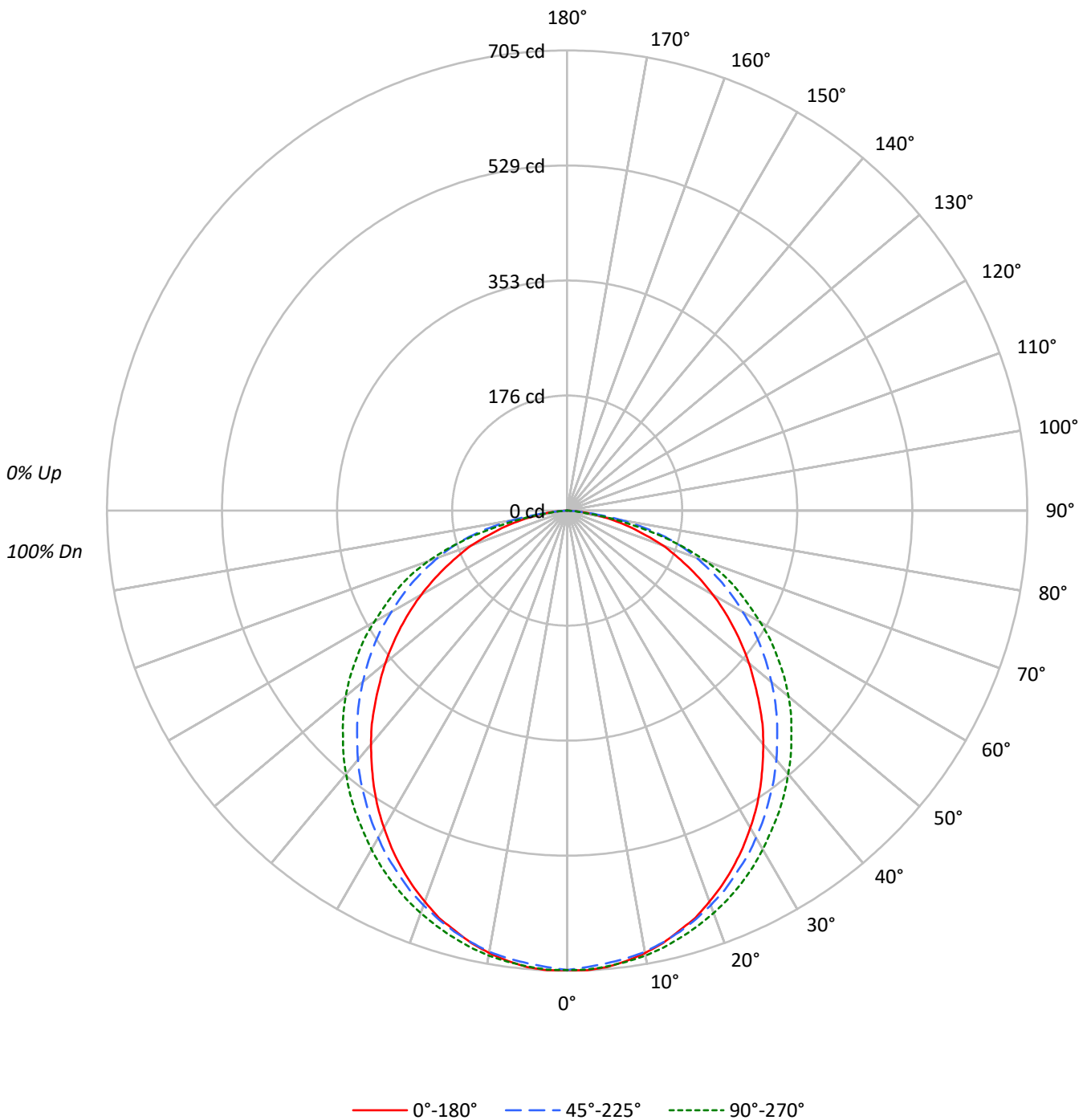
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1894	1894	1894
5°	1896	1880	1894
10°	1881	1876	1891
15°	1855	1860	1885
20°	1826	1842	1879
25°	1788	1820	1872
30°	1744	1798	1863
35°	1696	1773	1856
40°	1642	1751	1851
45°	1581	1730	1849
50°	1523	1711	1854
55°	1459	1697	1848
60°	1389	1673	1836
65°	1307	1668	1836
70°	1231	1654	1784
75°	1068	1617	1525
80°	863	1303	1015
85°	574	454	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.4
10°-20°	189.2	9.6
20°-30°	283.7	14.4
30°-40°	338.5	17.2
40°-50°	349.9	17.7
50°-60°	319.5	16.2
60°-70°	251.4	12.7
70°-80°	146.3	7.4
80°-90°	27.0	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°	539.4	27.4
0°-40°	877.9	44.5
0°-60°	1547.2	78.5
0°-90°	1972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	702	700	696	702	701	67
15°	666	667	668	677	677	188
25°	602	605	613	628	631	277
35°	516	523	540	560	565	323
45°	416	429	455	480	486	321
55°	311	328	362	388	394	278
65°	205	227	262	283	288	204
75°	103	127	156	152	147	109
85°	19	26	15	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.0	704.0	704.0	704.0	704.0
2.5°	704.9	703.0	700.1	704.9	704.0
5°	702.0	700.1	696.1	702.0	701.0
7.5°	696.1	694.2	692.2	698.1	697.1
10°	688.3	687.3	686.4	693.2	692.2
12.5°	678.6	678.6	677.6	685.4	685.4
15°	665.8	666.8	667.8	676.6	676.6
17.5°	654.1	653.1	656.1	665.8	666.8
20°	637.5	639.4	643.4	655.1	656.1
22.5°	620.9	622.8	629.7	641.4	644.3
25°	602.3	605.2	613.0	627.7	630.6
27.5°	582.7	586.6	597.4	613.0	616.0
30°	561.2	567.1	578.8	596.4	599.4
32.5°	539.7	545.6	560.2	577.8	581.8
35°	516.2	523.1	539.7	560.2	565.1
37.5°	491.8	500.6	520.2	540.7	546.6
40°	467.4	477.1	498.6	520.2	527.0
42.5°	442.9	452.7	476.2	500.6	507.4
45°	415.5	429.2	454.6	480.1	485.9
47.5°	389.1	403.8	432.2	457.6	465.4
50°	363.7	378.4	408.7	435.1	442.9
52.5°	337.3	353.0	385.2	412.6	419.4
55°	310.9	327.5	361.8	388.2	394.0
57.5°	284.5	302.1	337.3	362.7	369.6
60°	258.1	276.7	310.9	336.3	341.2
62.5°	231.7	251.3	286.5	309.0	313.9
65°	205.3	226.8	262.0	282.6	288.4
67.5°	179.9	201.4	235.6	255.2	260.1
70°	156.4	176.0	210.2	224.9	226.8
72.5°	127.1	151.5	184.8	192.6	187.7
75°	102.7	127.1	155.5	152.5	146.7
77.5°	78.2	102.7	121.2	111.5	103.6
80°	55.7	80.2	84.1	69.4	65.5
82.5°	36.2	55.7	46.9	36.2	29.3
85°	18.6	26.4	14.7	11.7	9.8
87.5°	5.9	3.9	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)