

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: P275678

Luminaire Tested: **14CZ2-20-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275678
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1994.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

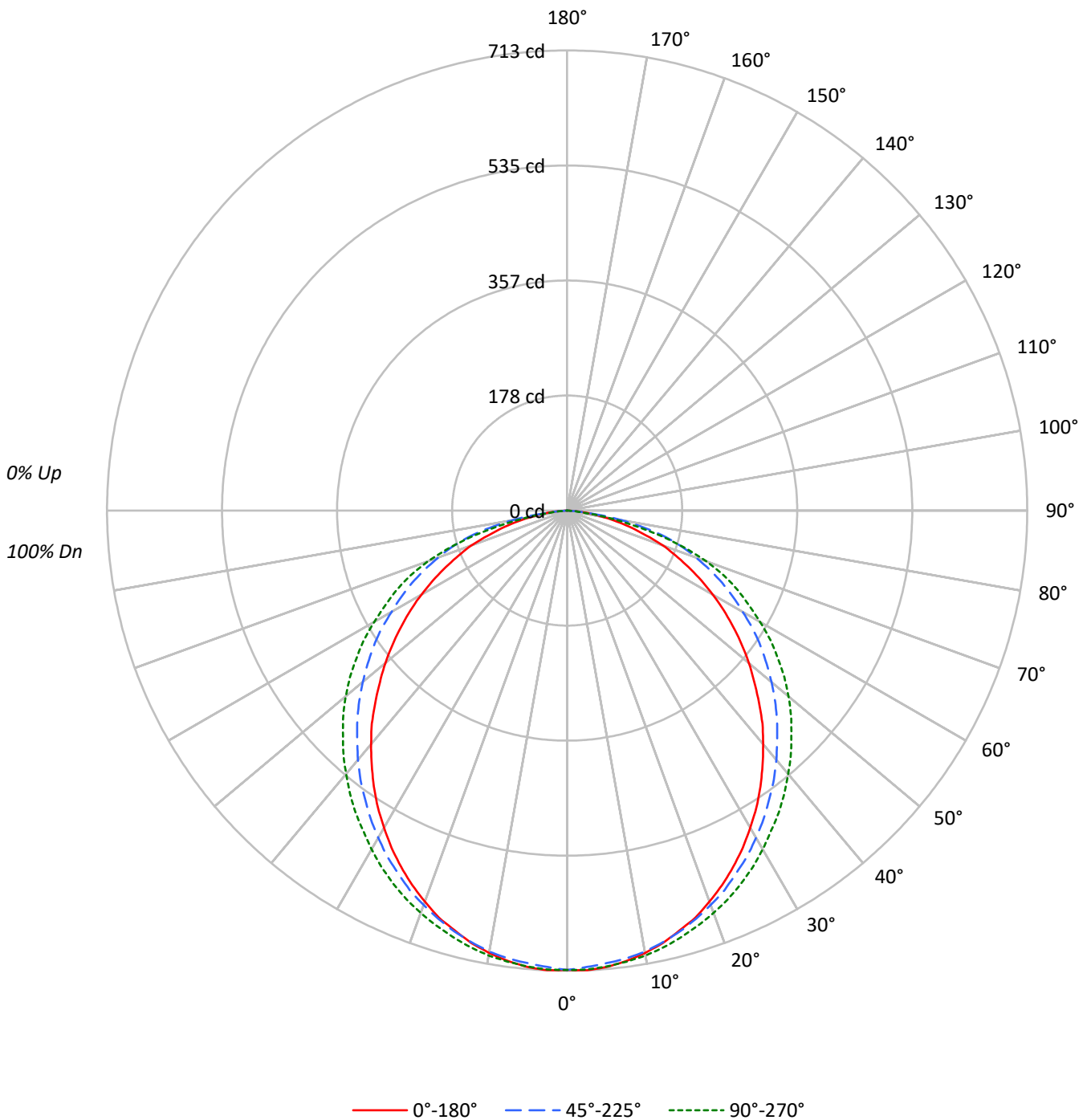
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1915	1915	1915
5°	1917	1901	1915
10°	1902	1896	1913
15°	1876	1881	1906
20°	1846	1863	1900
25°	1808	1841	1893
30°	1763	1819	1883
35°	1715	1793	1877
40°	1660	1771	1872
45°	1599	1749	1870
50°	1540	1730	1875
55°	1475	1716	1869
60°	1405	1692	1857
65°	1322	1687	1857
70°	1245	1673	1805
75°	1079	1634	1542
80°	874	1317	1026
85°	580	457	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	3.4
10°-20°	191.3	9.6
20°-30°	286.9	14.4
30°-40°	342.3	17.2
40°-50°	353.8	17.7
50°-60°	323.0	16.2
60°-70°	254.2	12.7
70°-80°	148.0	7.4
80°-90°	27.3	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°	545.4	27.4
0°-40°	887.7	44.5
0°-60°	1564.5	78.5
0°-90°	1994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	708	704	710	709	67
15°	673	674	675	684	684	190
25°	609	612	620	635	638	280
35°	522	529	546	566	571	326
45°	420	434	460	485	491	324
55°	314	331	366	392	398	281
65°	208	229	265	286	292	206
75°	104	128	157	154	148	110
85°	19	27	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°	711.8	711.8	711.8	711.8	711.8
2.5°	712.8	710.8	707.9	712.8	711.8
5°	709.8	707.9	703.9	709.8	708.9
7.5°	703.9	701.9	700.0	705.9	704.9
10°	696.0	695.0	694.0	700.9	700.0
12.5°	686.1	686.1	685.1	693.0	693.0
15°	673.3	674.3	675.2	684.1	684.1
17.5°	661.4	660.4	663.4	673.3	674.3
20°	644.6	646.6	650.5	662.4	663.4
22.5°	627.8	629.8	636.7	648.6	651.5
25°	609.0	612.0	619.9	634.7	637.7
27.5°	589.2	593.2	604.1	619.9	622.8
30°	567.5	573.4	585.3	603.1	606.0
32.5°	545.7	551.7	566.5	584.3	588.2
35°	522.0	528.9	545.7	566.5	571.4
37.5°	497.3	506.2	526.0	546.7	552.7
40°	472.6	482.5	504.2	526.0	532.9
42.5°	447.9	457.7	481.5	506.2	513.1
45°	420.2	434.0	459.7	485.4	491.4
47.5°	393.5	408.3	437.0	462.7	470.6
50°	367.8	382.6	413.3	439.9	447.9
52.5°	341.1	356.9	389.5	417.2	424.1
55°	314.4	331.2	365.8	392.5	398.4
57.5°	287.7	305.5	341.1	366.8	373.7
60°	261.0	279.8	314.4	340.1	345.0
62.5°	234.3	254.1	289.7	312.4	317.4
65°	207.6	229.4	265.0	285.7	291.7
67.5°	181.9	203.7	238.3	258.0	263.0
70°	158.2	178.0	212.6	227.4	229.4
72.5°	128.5	153.2	186.9	194.8	189.8
75°	103.8	128.5	157.2	154.2	148.3
77.5°	79.1	103.8	122.6	112.7	104.8
80°	56.4	81.1	85.0	70.2	66.2
82.5°	36.6	56.4	47.5	36.6	29.7
85°	18.8	26.7	14.8	11.9	9.9
87.5°	5.9	4.0	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)