

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: P275809

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

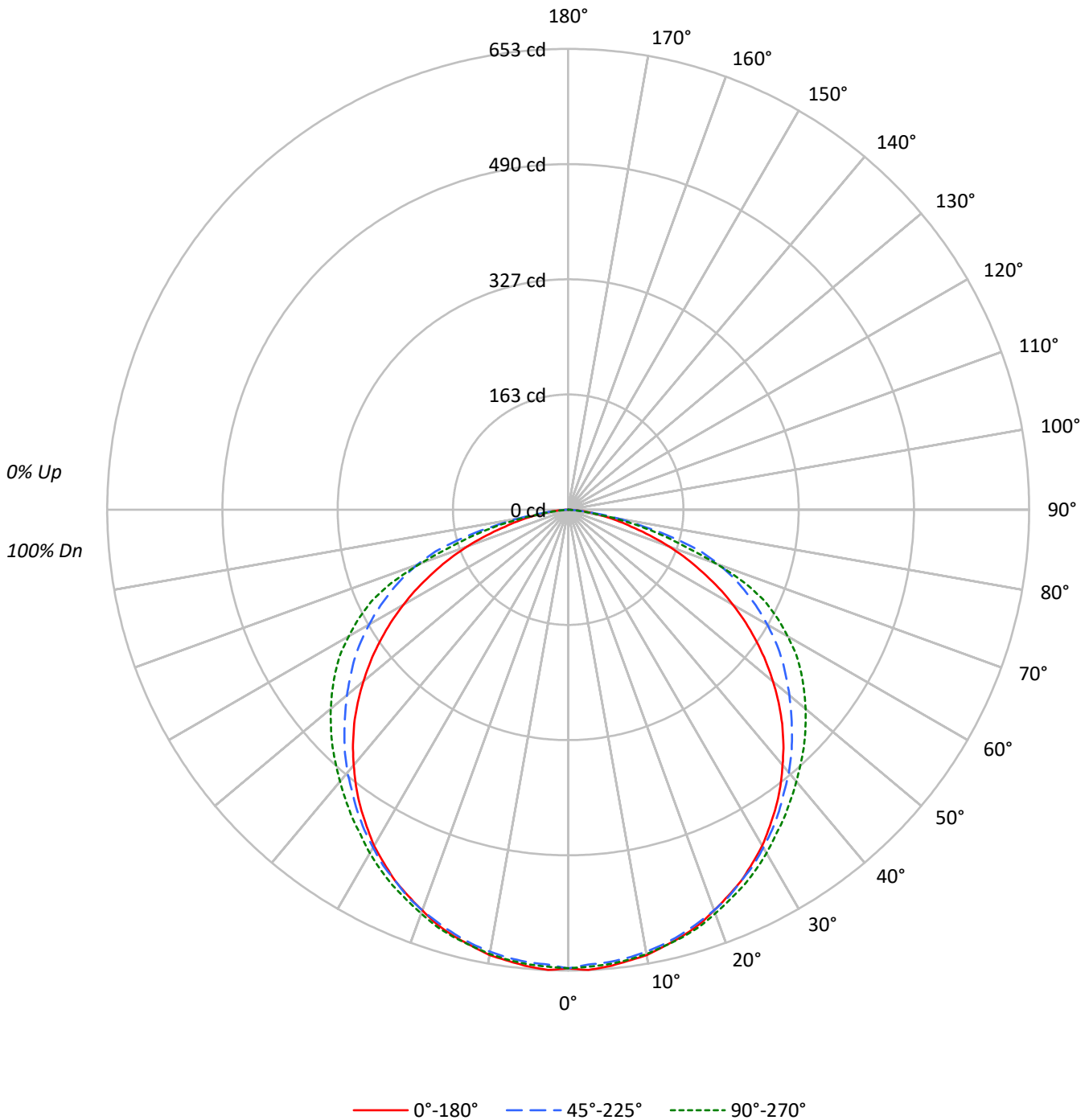
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1749	1749	1749
5°	1755	1739	1747
10°	1751	1738	1747
15°	1743	1734	1747
20°	1731	1731	1744
25°	1722	1722	1745
30°	1708	1718	1746
35°	1687	1712	1751
40°	1660	1708	1766
45°	1631	1706	1798
50°	1585	1712	1839
55°	1528	1734	1890
60°	1451	1752	1932
65°	1340	1775	1958
70°	1192	1788	1751
75°	961	1606	1402
80°	752	1127	916
85°	516	327	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.2
10°-20°	176.4	9.1
20°-30°	268.7	13.8
30°-40°	327.2	16.9
40°-50°	347.2	17.9
50°-60°	327.7	16.9
60°-70°	264.6	13.6
70°-80°	143.5	7.4
80°-90°	23.2	1.2
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°	506.6	26.1
0°-40°	833.9	43.0
0°-60°	1508.7	77.8
0°-90°	1940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	650	648	644	648	647	62
15°	626	624	622	627	627	176
25°	580	579	580	586	588	267
35°	513	516	521	532	533	321
45°	429	435	448	465	472	330
55°	326	339	370	394	403	291
65°	210	236	279	301	308	209
75°	92	135	154	139	135	101
85°	17	18	11	9	8	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.8	649.8	649.8	649.8	649.8
2.5°	652.8	649.8	645.2	649.8	648.2
5°	649.8	648.2	643.7	648.2	646.7
7.5°	645.2	645.2	640.7	643.7	643.7
10°	640.7	639.2	636.1	640.7	639.2
12.5°	633.1	631.6	630.1	634.6	633.1
15°	625.5	624.0	622.5	627.0	627.0
17.5°	616.4	614.9	613.4	619.5	619.5
20°	604.3	604.3	604.3	610.4	608.9
22.5°	592.2	592.2	593.7	599.8	598.3
25°	580.1	578.6	580.1	586.1	587.7
27.5°	564.9	566.5	568.0	574.0	575.5
30°	549.8	551.3	552.8	560.4	561.9
32.5°	531.6	534.6	537.7	546.8	546.8
35°	513.4	516.5	521.0	531.6	533.1
37.5°	493.8	496.8	502.8	515.0	518.0
40°	472.5	477.1	486.2	498.3	502.8
42.5°	451.3	457.4	468.0	481.6	487.7
45°	428.6	434.7	448.3	465.0	472.5
47.5°	404.4	412.0	428.6	449.8	455.9
50°	378.6	389.2	408.9	431.7	439.2
52.5°	352.9	365.0	389.2	413.5	421.1
55°	325.6	339.3	369.6	393.8	402.9
57.5°	298.4	313.5	348.4	374.1	383.2
60°	269.6	287.8	325.6	351.4	359.0
62.5°	240.8	262.0	302.9	328.7	334.7
65°	210.5	236.3	278.7	301.4	307.5
67.5°	181.7	212.0	254.4	271.1	271.1
70°	151.5	184.8	227.2	231.7	222.6
72.5°	121.2	159.0	196.9	180.2	172.7
75°	92.4	134.8	154.5	139.3	134.8
77.5°	69.7	109.0	109.0	100.0	96.9
80°	48.5	83.3	72.7	63.6	59.1
82.5°	31.8	47.0	37.9	30.3	25.7
85°	16.7	18.2	10.6	9.1	7.6
87.5°	6.1	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)