

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: P275805

Luminaire Tested: **14CZ2-29-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275805
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

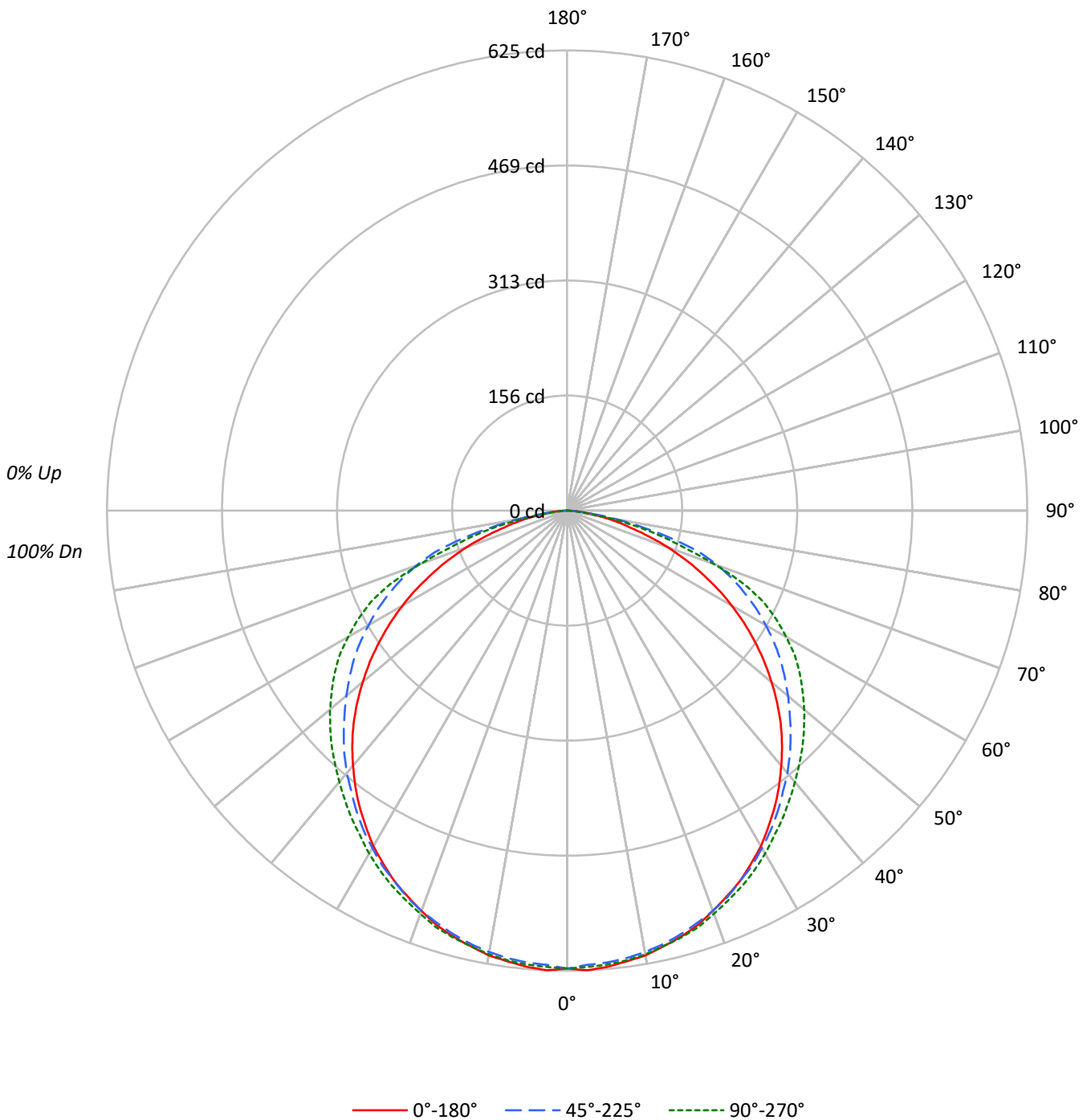
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1674	1674	1674
5°	1680	1665	1672
10°	1676	1664	1672
15°	1668	1660	1672
20°	1657	1657	1669
25°	1649	1649	1670
30°	1635	1644	1671
35°	1615	1638	1676
40°	1589	1635	1691
45°	1561	1633	1721
50°	1517	1639	1760
55°	1462	1659	1809
60°	1389	1678	1849
65°	1283	1699	1874
70°	1141	1711	1677
75°	919	1538	1341
80°	719	1079	876
85°	491	312	222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.2
10°-20°	168.9	9.1
20°-30°	257.2	13.8
30°-40°	313.2	16.9
40°-50°	332.3	17.9
50°-60°	313.6	16.9
60°-70°	253.2	13.6
70°-80°	137.4	7.4
80°-90°	22.2	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°	485.0	26.1
0°-40°	798.2	43.0
0°-60°	1444.2	77.8
0°-90°	1857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	622	620	616	620	619	59
15°	599	597	596	600	600	169
25°	555	554	555	561	562	256
35°	492	494	499	509	510	307
45°	410	416	429	445	452	316
55°	312	325	354	377	386	278
65°	202	226	267	288	294	200
75°	88	129	148	133	129	97
85°	16	17	10	9	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.0	622.0	622.0	622.0	622.0
2.5°	624.9	622.0	617.6	622.0	620.5
5°	622.0	620.5	616.2	620.5	619.1
7.5°	617.6	617.6	613.3	616.2	616.2
10°	613.3	611.8	608.9	613.3	611.8
12.5°	606.0	604.6	603.1	607.5	606.0
15°	598.8	597.3	595.9	600.2	600.2
17.5°	590.1	588.6	587.2	593.0	593.0
20°	578.5	578.5	578.5	584.3	582.8
22.5°	566.9	566.9	568.3	574.1	572.7
25°	555.3	553.8	555.3	561.1	562.5
27.5°	540.8	542.2	543.7	549.5	550.9
30°	526.3	527.7	529.2	536.4	537.9
32.5°	508.9	511.8	514.7	523.4	523.4
35°	491.5	494.4	498.7	508.9	510.3
37.5°	472.6	475.5	481.3	492.9	495.8
40°	452.3	456.7	465.4	477.0	481.3
42.5°	432.0	437.8	448.0	461.0	466.8
45°	410.3	416.1	429.1	445.1	452.3
47.5°	387.1	394.3	410.3	430.6	436.4
50°	362.4	372.6	391.4	413.2	420.4
52.5°	337.8	349.4	372.6	395.8	403.0
55°	311.7	324.8	353.7	376.9	385.6
57.5°	285.6	300.1	333.4	358.1	366.8
60°	258.1	275.5	311.7	336.3	343.6
62.5°	230.5	250.8	290.0	314.6	320.4
65°	201.5	226.2	266.8	288.5	294.3
67.5°	174.0	203.0	243.6	259.5	259.5
70°	145.0	176.9	217.5	221.8	213.1
72.5°	116.0	152.2	188.5	172.5	165.3
75°	88.4	129.0	147.9	133.4	129.0
77.5°	66.7	104.4	104.4	95.7	92.8
80°	46.4	79.7	69.6	60.9	56.5
82.5°	30.4	44.9	36.2	29.0	24.6
85°	15.9	17.4	10.1	8.7	7.2
87.5°	5.8	2.9	1.4	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)