

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: P275734

Luminaire Tested: **14CZ2-29-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275734
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1758.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

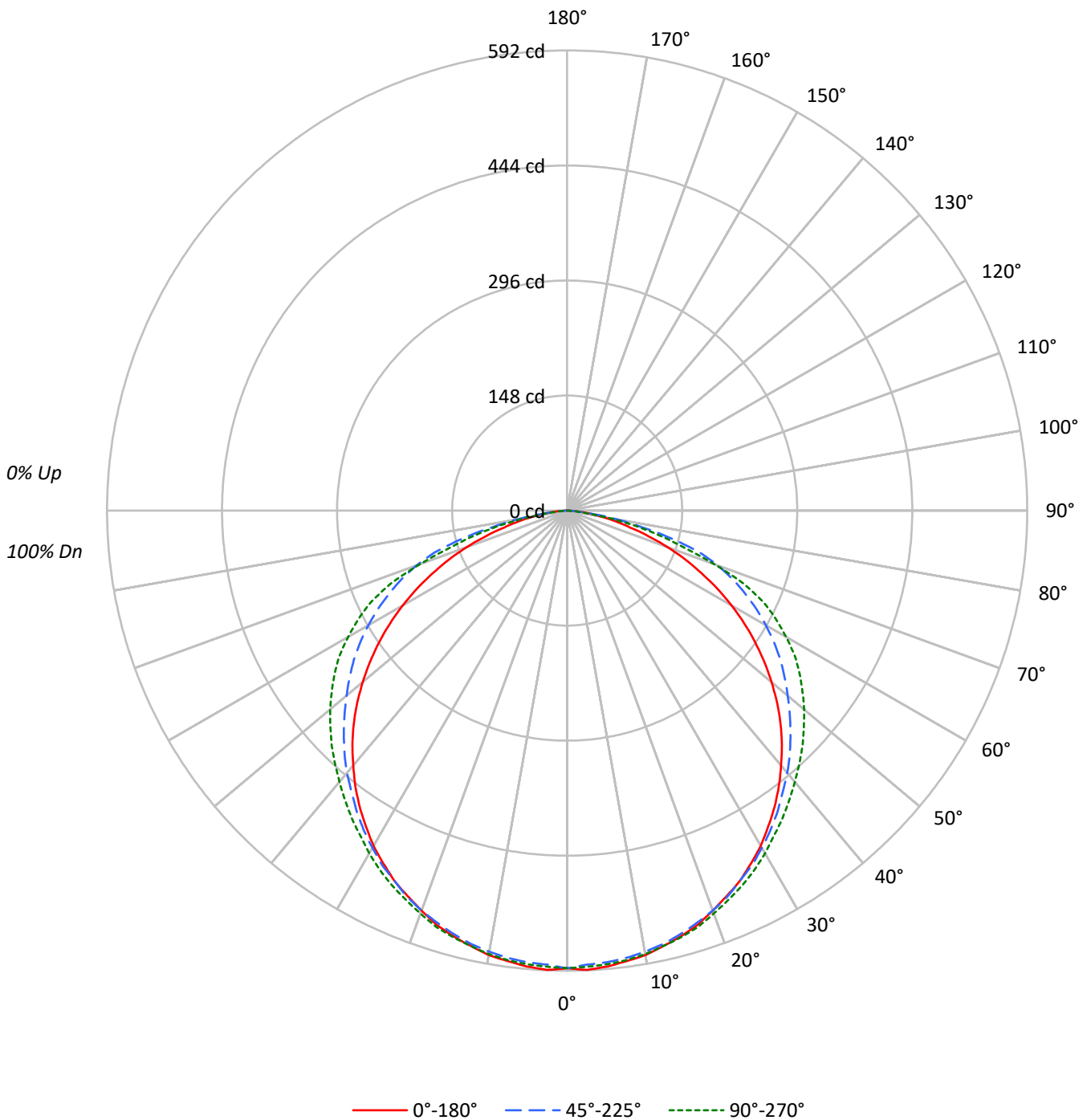
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1584	1584	1584
5°	1591	1576	1583
10°	1586	1575	1583
15°	1579	1572	1583
20°	1568	1568	1580
25°	1561	1561	1581
30°	1548	1557	1582
35°	1529	1551	1587
40°	1504	1548	1601
45°	1478	1546	1630
50°	1436	1551	1666
55°	1384	1571	1713
60°	1315	1588	1751
65°	1215	1608	1774
70°	1079	1620	1588
75°	870	1456	1271
80°	680	1021	829
85°	466	296	213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.2
10°-20°	159.9	9.1
20°-30°	243.5	13.8
30°-40°	296.5	16.9
40°-50°	314.6	17.9
50°-60°	296.9	16.9
60°-70°	239.7	13.6
70°-80°	130.0	7.4
80°-90°	21.0	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°	459.1	26.1
0°-40°	755.6	43.0
0°-60°	1367.2	77.8
0°-90°	1758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	589	587	583	587	586	56
15°	567	566	564	568	568	160
25°	526	524	526	531	532	242
35°	465	468	472	482	483	291
45°	388	394	406	421	428	299
55°	295	307	335	357	365	264
65°	191	214	252	273	279	189
75°	84	122	140	126	122	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.8	588.8	588.8	588.8	588.8
2.5°	591.5	588.8	584.7	588.8	587.4
5°	588.8	587.4	583.3	587.4	586.1
7.5°	584.7	584.7	580.6	583.3	583.3
10°	580.6	579.2	576.4	580.6	579.2
12.5°	573.7	572.3	571.0	575.1	573.7
15°	566.8	565.5	564.1	568.2	568.2
17.5°	558.6	557.2	555.9	561.3	561.3
20°	547.6	547.6	547.6	553.1	551.7
22.5°	536.6	536.6	538.0	543.5	542.1
25°	525.7	524.3	525.7	531.2	532.5
27.5°	511.9	513.3	514.7	520.2	521.5
30°	498.2	499.6	501.0	507.8	509.2
32.5°	481.7	484.5	487.2	495.5	495.5
35°	465.3	468.0	472.1	481.7	483.1
37.5°	447.4	450.2	455.7	466.6	469.4
40°	428.2	432.3	440.6	451.5	455.7
42.5°	409.0	414.5	424.1	436.5	441.9
45°	388.4	393.9	406.3	421.4	428.2
47.5°	366.5	373.3	388.4	407.6	413.1
50°	343.1	352.7	370.6	391.2	398.0
52.5°	319.8	330.8	352.7	374.7	381.6
55°	295.1	307.4	334.9	356.8	365.1
57.5°	270.4	284.1	315.7	339.0	347.2
60°	244.3	260.8	295.1	318.4	325.3
62.5°	218.2	237.4	274.5	297.8	303.3
65°	190.8	214.1	252.5	273.1	278.6
67.5°	164.7	192.1	230.6	245.7	245.7
70°	137.2	167.4	205.9	210.0	201.8
72.5°	109.8	144.1	178.4	163.3	156.5
75°	83.7	122.2	140.0	126.3	122.2
77.5°	63.1	98.8	98.8	90.6	87.8
80°	43.9	75.5	65.9	57.6	53.5
82.5°	28.8	42.5	34.3	27.4	23.3
85°	15.1	16.5	9.6	8.2	6.9
87.5°	5.5	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)