

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: P275504

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1779.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

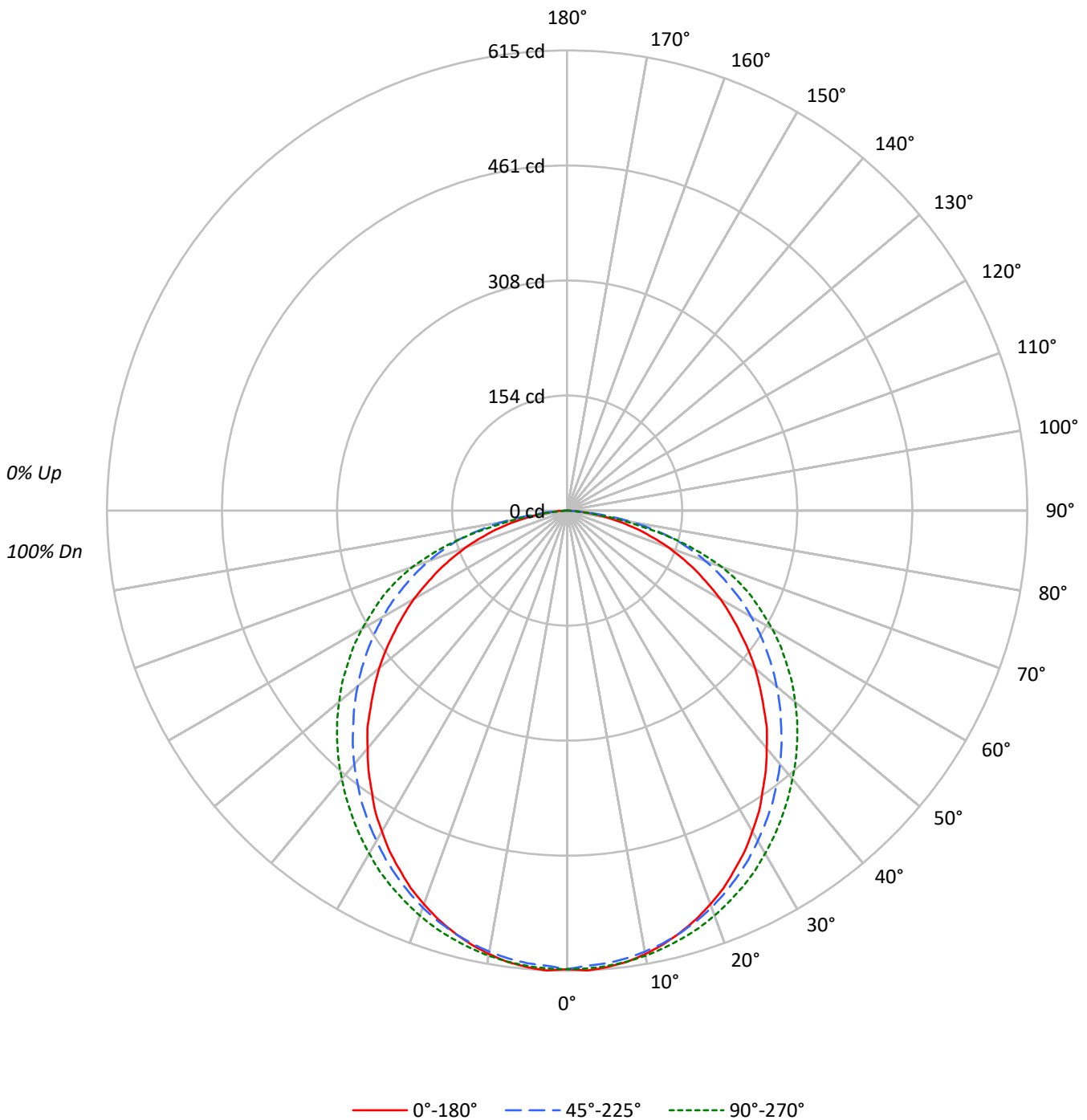
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1649	1649	1649
5°	1655	1640	1650
10°	1644	1636	1651
15°	1627	1628	1650
20°	1603	1617	1649
25°	1572	1601	1648
30°	1538	1584	1644
35°	1497	1570	1643
40°	1457	1555	1646
45°	1413	1538	1655
50°	1372	1531	1666
55°	1319	1526	1681
60°	1272	1528	1704
65°	1207	1533	1730
70°	1133	1545	1729
75°	1027	1559	1563
80°	841	1347	1113
85°	624	636	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.3
10°-20°	165.7	9.3
20°-30°	249.6	14.0
30°-40°	299.5	16.8
40°-50°	312.1	17.5
50°-60°	289.0	16.2
60°-70°	233.5	13.1
70°-80°	142.3	8.0
80°-90°	29.4	1.7
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°	473.2	26.6
0°-40°	772.7	43.4
0°-60°	1373.8	77.2
0°-90°	1779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	612	611	607	612	611	58
15°	584	584	584	592	592	165
25°	530	533	539	553	555	244
35°	456	463	478	496	500	286
45°	371	382	404	427	435	287
55°	281	296	325	351	358	252
65°	190	208	241	265	272	187
75°	99	121	150	152	150	104
85°	20	30	21	12	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.9	612.9	612.9	612.9	612.9
2.5°	615.3	613.3	608.9	613.3	612.5
5°	612.5	610.9	607.3	611.7	610.9
7.5°	608.5	606.9	603.7	608.9	608.1
10°	601.8	601.0	598.6	604.5	604.1
12.5°	593.8	593.4	592.2	599.0	598.6
15°	583.9	584.3	584.3	592.2	592.2
17.5°	572.8	573.6	575.2	583.9	585.1
20°	559.7	561.3	564.5	574.4	576.0
22.5°	546.2	547.4	552.2	564.1	565.7
25°	529.6	532.7	539.1	552.6	555.0
27.5°	513.7	516.5	525.2	539.1	543.1
30°	495.1	499.4	509.7	524.8	529.2
32.5°	477.2	482.0	493.9	511.3	515.3
35°	455.8	462.9	478.0	495.5	500.2
37.5°	436.3	443.1	460.1	479.2	484.7
40°	414.9	423.3	442.7	462.9	468.5
42.5°	395.1	403.0	424.1	444.7	452.2
45°	371.3	382.4	404.2	426.8	434.8
47.5°	349.5	360.6	385.6	409.8	416.9
50°	327.7	339.6	365.7	390.7	397.9
52.5°	305.0	317.7	345.9	370.9	379.2
55°	281.2	295.9	325.3	350.7	358.2
57.5°	258.6	273.7	305.0	330.8	338.4
60°	236.4	251.9	284.0	308.6	316.6
62.5°	211.8	230.1	263.4	287.6	293.5
65°	189.6	208.3	240.8	265.0	271.7
67.5°	166.2	186.4	219.0	241.2	247.5
70°	144.0	165.0	196.4	217.0	219.8
72.5°	120.2	141.6	173.3	186.4	186.4
75°	98.8	120.6	149.9	152.3	150.3
77.5°	75.4	99.6	118.6	113.8	109.1
80°	54.3	78.1	86.9	78.1	71.8
82.5°	36.5	56.7	52.4	41.7	36.9
85°	20.2	30.1	20.6	11.5	8.3
87.5°	7.5	6.7	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)