

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: P277275

Luminaire Tested: **22CZ2-24HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1780.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

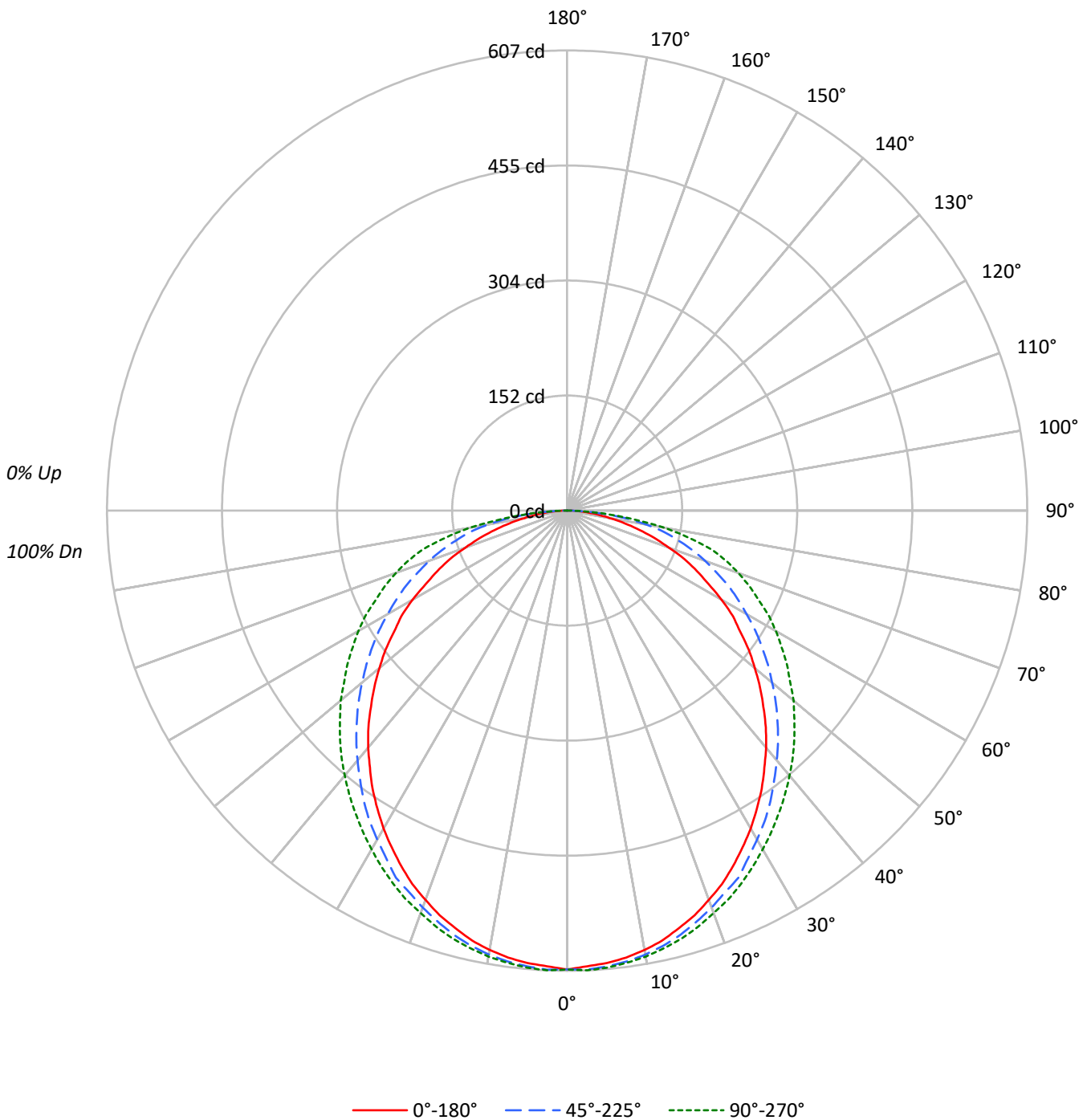
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1629	1629	1629
5°	1618	1630	1635
10°	1608	1625	1632
15°	1589	1613	1628
20°	1565	1595	1618
25°	1537	1586	1612
30°	1505	1557	1603
35°	1470	1536	1600
40°	1434	1511	1603
45°	1393	1493	1613
50°	1353	1478	1632
55°	1307	1471	1660
60°	1268	1471	1711
65°	1205	1494	1773
70°	1124	1523	1888
75°	1029	1575	2040
80°	896	1643	2008
85°	784	1460	1596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.2
10°-20°	163.0	9.2
20°-30°	244.7	13.7
30°-40°	292.4	16.4
40°-50°	304.1	17.1
50°-60°	281.9	15.8
60°-70°	231.2	13.0
70°-80°	156.3	8.8
80°-90°	49.1	2.8
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°	465.0	26.1
0°-40°	757.5	42.6
0°-60°	1343.4	75.5
0°-90°	1780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	599	600	604	604	605	57
15°	570	573	579	582	584	161
25°	518	522	534	540	543	238
35°	448	454	468	482	487	280
45°	366	373	392	415	424	283
55°	278	287	314	342	354	250
65°	189	200	235	265	278	187
75°	99	116	152	182	196	105
85°	25	35	47	53	52	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.2	605.2	605.2	605.2	605.2
2.5°	601.7	603.5	606.1	607.0	607.0
5°	599.1	600.0	603.5	604.4	605.2
7.5°	594.7	596.5	600.0	600.9	601.7
10°	588.6	590.3	594.7	596.5	597.3
12.5°	580.7	582.5	587.7	590.3	591.2
15°	570.2	572.8	579.0	582.5	584.2
17.5°	559.7	562.3	568.4	573.7	575.5
20°	546.5	552.7	557.1	564.1	564.9
22.5°	533.4	536.9	544.8	551.8	555.3
25°	517.6	522.0	534.3	540.4	543.0
27.5°	501.0	507.1	516.8	526.4	529.9
30°	484.4	488.7	501.0	512.4	515.9
32.5°	466.0	472.1	485.2	496.6	501.9
35°	447.6	453.7	467.7	481.7	487.0
37.5°	427.4	434.4	448.5	465.1	472.1
40°	408.2	413.4	430.1	450.2	456.3
42.5°	388.0	394.1	411.7	433.6	440.6
45°	366.1	373.1	392.4	415.2	423.9
47.5°	345.1	352.1	373.1	395.9	406.4
50°	323.2	332.0	353.0	379.3	389.8
52.5°	302.2	310.1	333.7	360.9	370.5
55°	278.5	287.3	313.6	341.6	353.9
57.5°	259.3	265.4	294.3	323.2	335.5
60°	235.6	243.5	273.3	303.9	317.9
62.5°	210.2	223.3	254.0	285.5	299.6
65°	189.2	199.7	234.7	265.4	278.5
67.5°	167.3	178.7	212.8	245.2	260.1
70°	142.8	157.7	193.6	226.0	240.0
72.5°	120.9	136.6	173.4	205.0	219.8
75°	99.0	115.6	151.5	182.2	196.2
77.5°	78.0	96.3	131.4	155.0	163.8
80°	57.8	75.3	106.0	122.6	129.6
82.5°	40.3	55.2	78.0	86.7	88.5
85°	25.4	35.0	47.3	52.6	51.7
87.5°	11.4	14.0	17.5	19.3	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)