

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: P277221

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277221
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2084.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

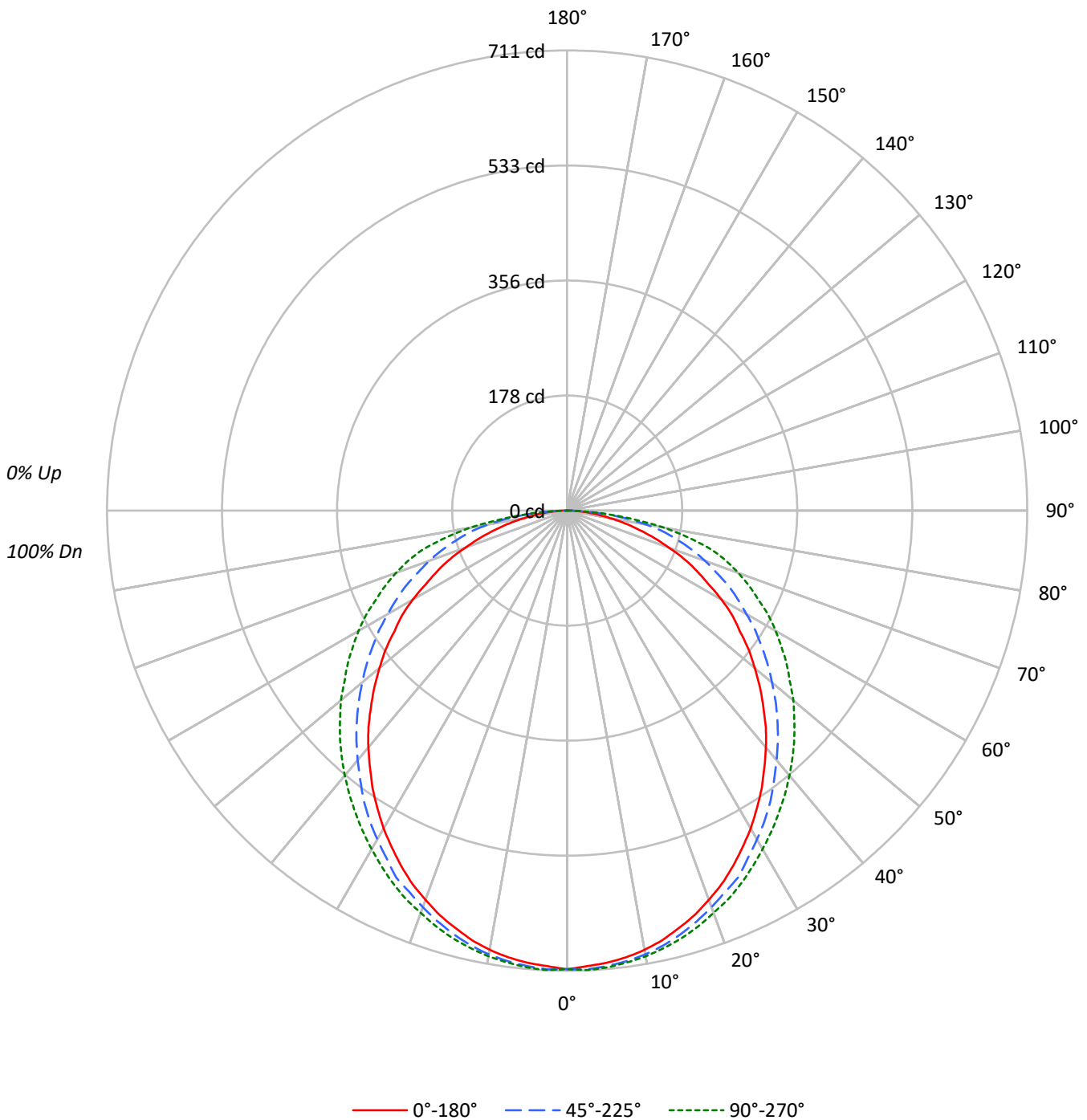
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1907	1907	1907
5°	1895	1908	1914
10°	1883	1903	1911
15°	1860	1888	1906
20°	1832	1868	1894
25°	1800	1857	1888
30°	1762	1823	1877
35°	1721	1799	1873
40°	1679	1769	1877
45°	1631	1748	1889
50°	1584	1730	1910
55°	1530	1722	1944
60°	1485	1722	2003
65°	1410	1750	2076
70°	1316	1783	2211
75°	1205	1844	2388
80°	1049	1923	2352
85°	917	1711	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.2
10°-20°	190.9	9.2
20°-30°	286.5	13.7
30°-40°	342.4	16.4
40°-50°	356.0	17.1
50°-60°	330.0	15.8
60°-70°	270.7	13.0
70°-80°	183.0	8.8
80°-90°	57.5	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°	544.4	26.1
0°-40°	886.8	42.6
0°-60°	1572.8	75.5
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	701	702	706	708	709	67
15°	668	671	678	682	684	188
25°	606	611	626	633	636	279
35°	524	531	548	564	570	328
45°	429	437	459	486	496	331
55°	326	336	367	400	414	293
65°	222	234	275	311	326	219
75°	116	135	177	213	230	123
85°	30	41	55	62	60	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.6	708.6	708.6	708.6	708.6
2.5°	704.5	706.5	709.6	710.6	710.6
5°	701.4	702.4	706.5	707.6	708.6
7.5°	696.3	698.3	702.4	703.5	704.5
10°	689.1	691.2	696.3	698.3	699.4
12.5°	679.9	681.9	688.1	691.2	692.2
15°	667.6	670.7	677.8	681.9	684.0
17.5°	655.3	658.4	665.5	671.7	673.7
20°	639.9	647.1	652.2	660.4	661.4
22.5°	624.5	628.6	637.8	646.0	650.1
25°	606.1	611.2	625.5	632.7	635.8
27.5°	586.6	593.7	605.0	616.3	620.4
30°	567.1	572.2	586.6	599.9	604.0
32.5°	545.5	552.7	568.1	581.4	587.6
35°	524.0	531.2	547.6	564.0	570.2
37.5°	500.4	508.6	525.0	544.5	552.7
40°	477.9	484.0	503.5	527.1	534.3
42.5°	454.3	461.5	482.0	507.6	515.8
45°	428.6	436.8	459.4	486.1	496.3
47.5°	404.0	412.2	436.8	463.5	475.8
50°	378.4	388.7	413.3	444.0	456.3
52.5°	353.8	363.0	390.7	422.5	433.8
55°	326.1	336.4	367.1	399.9	414.3
57.5°	303.5	310.7	344.6	378.4	392.8
60°	275.9	285.1	319.9	355.8	372.2
62.5°	246.1	261.5	297.4	334.3	350.7
65°	221.5	233.8	274.8	310.7	326.1
67.5°	195.9	209.2	249.2	287.1	304.6
70°	167.2	184.6	226.6	264.6	281.0
72.5°	141.5	160.0	203.0	240.0	257.4
75°	115.9	135.4	177.4	213.3	229.7
77.5°	91.3	112.8	153.8	181.5	191.8
80°	67.7	88.2	124.1	143.6	151.8
82.5°	47.2	64.6	91.3	101.5	103.6
85°	29.7	41.0	55.4	61.5	60.5
87.5°	13.3	16.4	20.5	22.6	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)