

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: P277284

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277284
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: 22CZ2-29HE-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: 2081.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

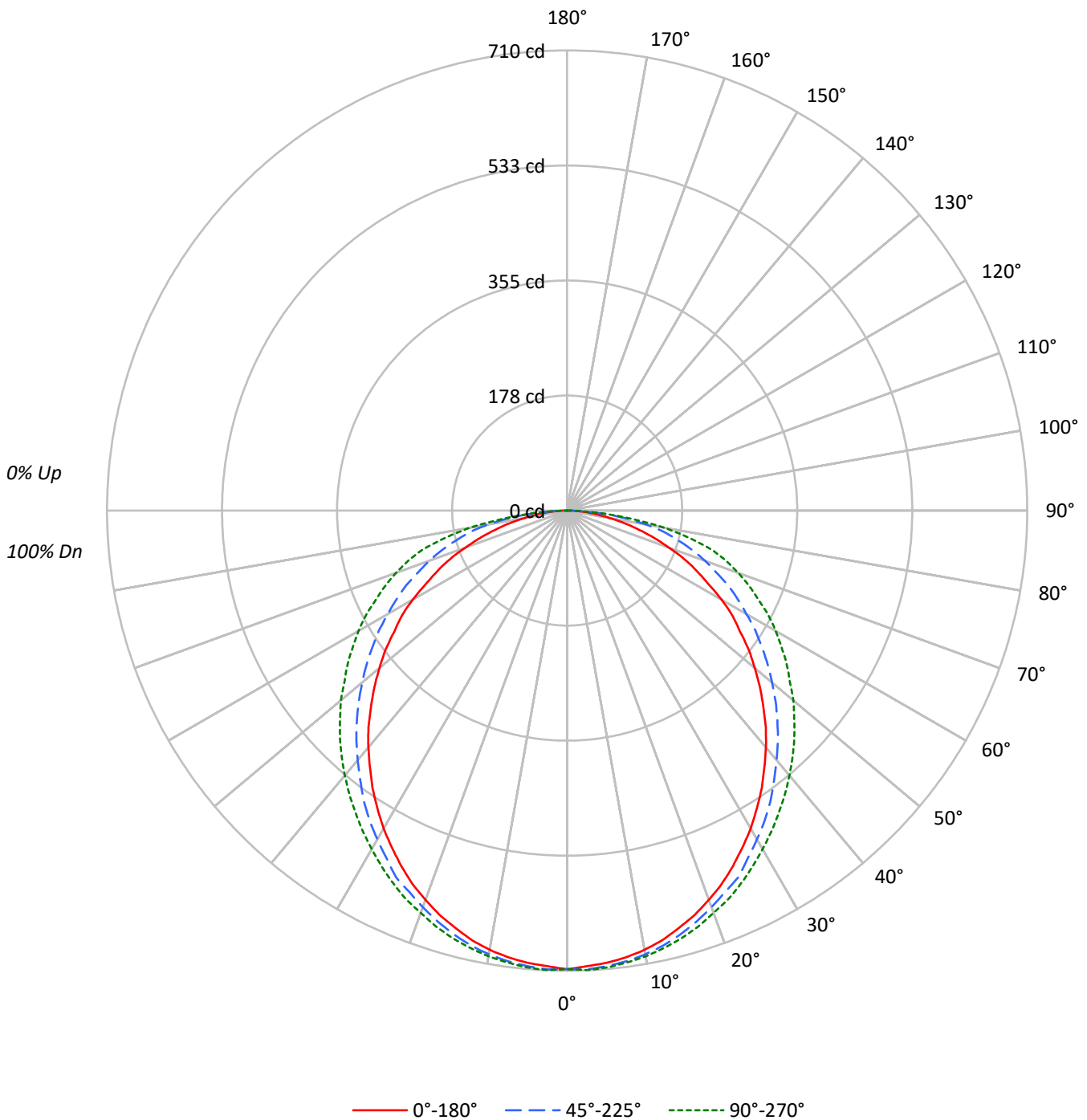
Input Watts (W): 20.739
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1904	1904	1904
5°	1892	1906	1911
10°	1880	1900	1908
15°	1857	1886	1903
20°	1830	1865	1891
25°	1797	1855	1885
30°	1760	1820	1874
35°	1719	1796	1870
40°	1676	1766	1874
45°	1629	1746	1886
50°	1582	1728	1908
55°	1528	1720	1941
60°	1483	1720	2000
65°	1408	1747	2073
70°	1313	1781	2208
75°	1203	1842	2385
80°	1048	1920	2349
85°	917	1707	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.2
10°-20°	190.6	9.2
20°-30°	286.1	13.7
30°-40°	341.9	16.4
40°-50°	355.5	17.1
50°-60°	329.5	15.8
60°-70°	270.3	13.0
70°-80°	182.7	8.8
80°-90°	57.4	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°	543.7	26.1
0°-40°	885.5	42.6
0°-60°	1570.6	75.5
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	700	701	706	707	708	66
15°	667	670	677	681	683	188
25°	605	610	625	632	635	279
35°	523	530	547	563	569	327
45°	428	436	459	485	496	331
55°	326	336	367	399	414	293
65°	221	234	274	310	326	219
75°	116	135	177	213	229	123
85°	30	41	55	61	60	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.6	707.6	707.6	707.6	707.6
2.5°	703.5	705.5	708.6	709.6	709.6
5°	700.4	701.4	705.5	706.6	707.6
7.5°	695.3	697.3	701.4	702.5	703.5
10°	688.1	690.2	695.3	697.3	698.4
12.5°	678.9	681.0	687.1	690.2	691.2
15°	666.6	669.7	676.9	681.0	683.0
17.5°	654.3	657.4	664.6	670.7	672.8
20°	639.0	646.1	651.3	659.5	660.5
22.5°	623.6	627.7	636.9	645.1	649.2
25°	605.2	610.3	624.6	631.8	634.9
27.5°	585.7	592.9	604.2	615.4	619.5
30°	566.3	571.4	585.7	599.0	603.1
32.5°	544.8	551.9	567.3	580.6	586.7
35°	523.3	530.4	546.8	563.2	569.3
37.5°	499.7	507.9	524.3	543.7	551.9
40°	477.2	483.3	502.8	526.3	533.5
42.5°	453.6	460.8	481.3	506.9	515.1
45°	428.0	436.2	458.7	485.4	495.6
47.5°	403.5	411.6	436.2	462.8	475.1
50°	377.9	388.1	412.7	443.4	455.7
52.5°	353.3	362.5	390.1	421.9	433.1
55°	325.6	335.9	366.6	399.4	413.7
57.5°	303.1	310.3	344.1	377.9	392.2
60°	275.5	284.7	319.5	355.3	371.7
62.5°	245.8	261.1	297.0	333.8	350.2
65°	221.2	233.5	274.4	310.3	325.6
67.5°	195.6	208.9	248.8	286.7	304.1
70°	166.9	184.3	226.3	264.2	280.6
72.5°	141.3	159.7	202.8	239.6	257.0
75°	115.7	135.2	177.2	213.0	229.4
77.5°	91.1	112.6	153.6	181.2	191.5
80°	67.6	88.1	123.9	143.4	151.6
82.5°	47.1	64.5	91.1	101.4	103.4
85°	29.7	41.0	55.3	61.4	60.4
87.5°	13.3	16.4	20.5	22.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)