

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: P277272

Luminaire Tested: **22CZ2-20HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277272
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: 22CZ2-20HE-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1890.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

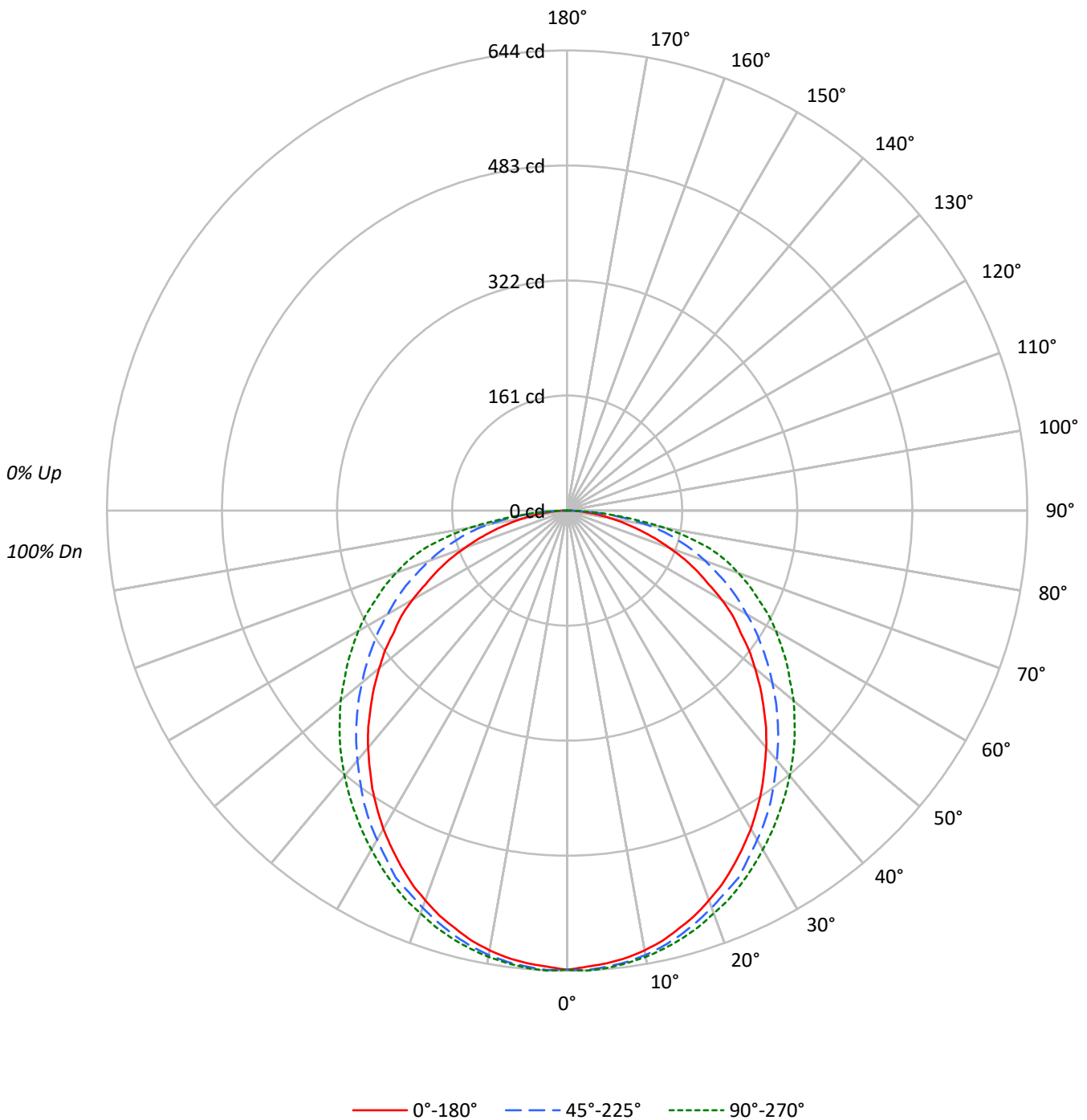
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1729	1729	1729
5°	1718	1731	1736
10°	1708	1726	1733
15°	1687	1712	1728
20°	1662	1694	1718
25°	1632	1684	1712
30°	1598	1653	1702
35°	1561	1631	1699
40°	1522	1604	1702
45°	1479	1585	1713
50°	1437	1569	1733
55°	1387	1562	1763
60°	1347	1562	1817
65°	1279	1587	1883
70°	1193	1617	2005
75°	1093	1673	2166
80°	951	1743	2132
85°	834	1550	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.2
10°-20°	173.1	9.2
20°-30°	259.9	13.7
30°-40°	310.5	16.4
40°-50°	322.9	17.1
50°-60°	299.3	15.8
60°-70°	245.5	13.0
70°-80°	165.9	8.8
80°-90°	52.2	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°	493.8	26.1
0°-40°	804.3	42.6
0°-60°	1426.4	75.5
0°-90°	1890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	636	637	641	642	643	60
15°	605	608	615	618	620	171
25°	550	554	567	574	577	253
35°	475	482	497	512	517	297
45°	389	396	417	441	450	300
55°	296	305	333	363	376	266
65°	201	212	249	282	296	199
75°	105	123	161	193	208	111
85°	27	37	50	56	55	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.6	642.6	642.6	642.6	642.6
2.5°	638.9	640.8	643.6	644.5	644.5
5°	636.1	637.1	640.8	641.7	642.6
7.5°	631.5	633.3	637.1	638.0	638.9
10°	625.0	626.8	631.5	633.3	634.3
12.5°	616.6	618.5	624.0	626.8	627.8
15°	605.4	608.2	614.7	618.5	620.3
17.5°	594.3	597.1	603.6	609.2	611.0
20°	580.3	586.8	591.5	598.9	599.9
22.5°	566.4	570.1	578.5	585.9	589.6
25°	549.6	554.3	567.3	573.8	576.6
27.5°	532.0	538.5	548.7	558.9	562.7
30°	514.3	518.9	532.0	544.1	547.8
32.5°	494.8	501.3	515.2	527.3	532.9
35°	475.2	481.7	496.6	511.5	517.1
37.5°	453.8	461.3	476.2	493.8	501.3
40°	433.4	439.0	456.6	478.0	484.5
42.5°	412.0	418.5	437.1	460.4	467.8
45°	388.7	396.2	416.6	440.8	450.1
47.5°	366.4	373.9	396.2	420.4	431.5
50°	343.2	352.5	374.8	402.7	413.9
52.5°	320.9	329.2	354.3	383.2	393.4
55°	295.7	305.0	332.9	362.7	375.7
57.5°	275.3	281.8	312.5	343.2	356.2
60°	250.2	258.5	290.2	322.7	337.6
62.5°	223.2	237.2	269.7	303.2	318.1
65°	200.9	212.0	249.2	281.8	295.7
67.5°	177.6	189.7	226.0	260.4	276.2
70°	151.6	167.4	205.5	239.9	254.8
72.5°	128.3	145.1	184.1	217.6	233.4
75°	105.1	122.8	160.9	193.4	208.3
77.5°	82.8	102.3	139.5	164.6	173.9
80°	61.4	80.0	112.5	130.2	137.6
82.5°	42.8	58.6	82.8	92.1	93.9
85°	27.0	37.2	50.2	55.8	54.9
87.5°	12.1	14.9	18.6	20.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)