

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: P277274

Luminaire Tested: **22CZ2-20HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277274
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-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1911.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

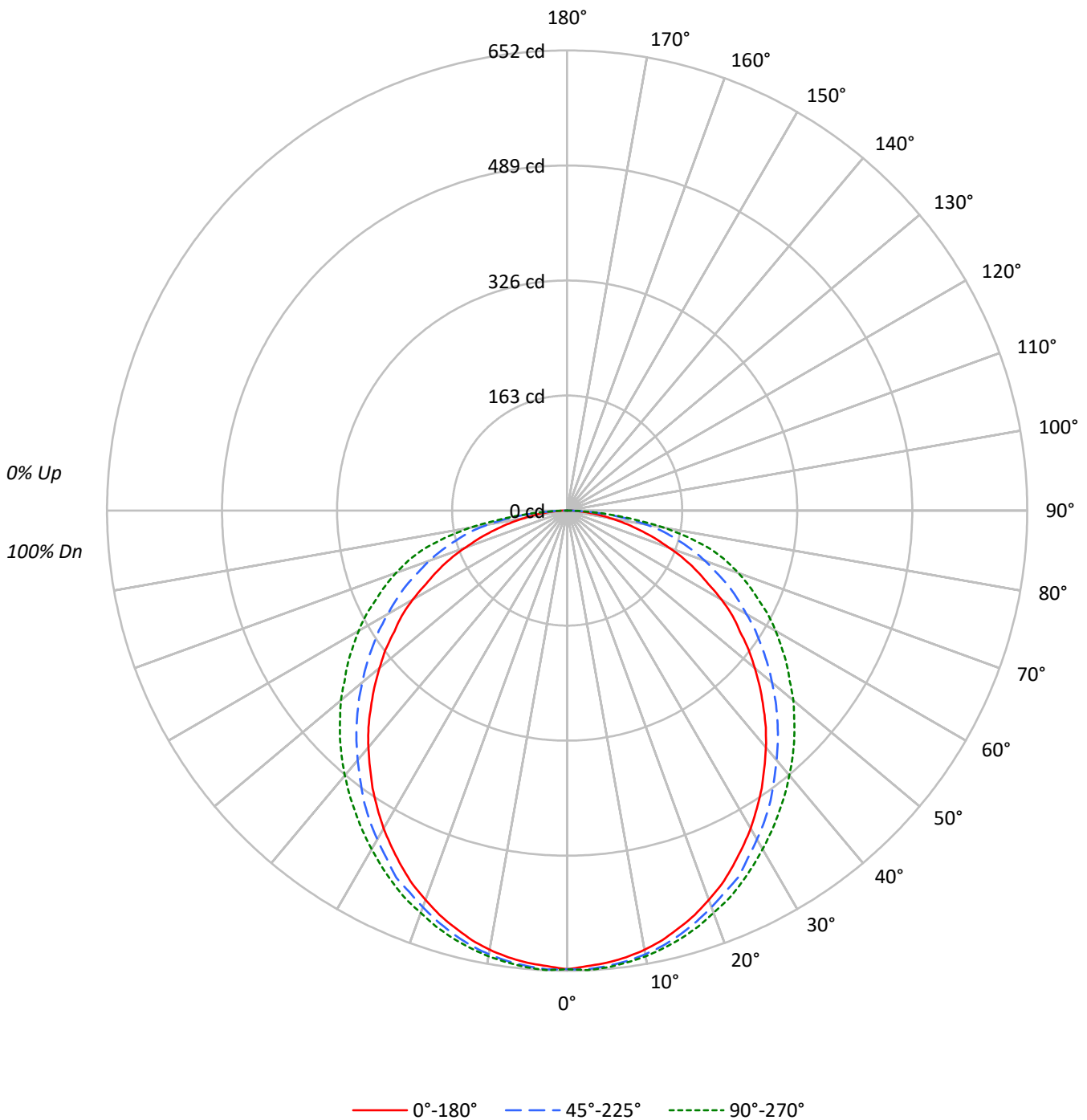
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1749	1749	1749
5°	1737	1750	1755
10°	1727	1745	1752
15°	1706	1732	1747
20°	1680	1713	1737
25°	1650	1703	1731
30°	1616	1671	1721
35°	1578	1649	1717
40°	1539	1622	1721
45°	1496	1603	1732
50°	1453	1587	1752
55°	1403	1579	1782
60°	1362	1579	1837
65°	1293	1605	1904
70°	1206	1635	2028
75°	1105	1692	2190
80°	962	1764	2157
85°	843	1568	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.2
10°-20°	175.0	9.2
20°-30°	262.8	13.7
30°-40°	314.0	16.4
40°-50°	326.5	17.1
50°-60°	302.6	15.8
60°-70°	248.2	13.0
70°-80°	167.8	8.8
80°-90°	52.7	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°	499.2	26.1
0°-40°	813.2	42.6
0°-60°	1442.3	75.5
0°-90°	1911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	643	644	648	649	650	61
15°	612	615	622	625	627	173
25°	556	560	574	580	583	256
35°	480	487	502	517	523	300
45°	393	401	421	446	455	304
55°	299	308	337	367	380	269
65°	203	214	252	285	299	201
75°	106	124	163	196	211	113
85°	27	38	51	56	56	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.8	649.8	649.8	649.8	649.8
2.5°	646.0	647.9	650.7	651.7	651.7
5°	643.2	644.1	647.9	648.8	649.8
7.5°	638.5	640.4	644.1	645.1	646.0
10°	631.9	633.8	638.5	640.4	641.3
12.5°	623.4	625.3	631.0	633.8	634.7
15°	612.2	615.0	621.6	625.3	627.2
17.5°	600.9	603.7	610.3	615.9	617.8
20°	586.8	593.4	598.1	605.6	606.5
22.5°	572.7	576.4	584.9	592.4	596.2
25°	555.7	560.4	573.6	580.2	583.0
27.5°	537.9	544.5	554.8	565.1	568.9
30°	520.0	524.7	537.9	550.1	553.9
32.5°	500.3	506.8	520.9	533.2	538.8
35°	480.5	487.1	502.1	517.2	522.8
37.5°	458.9	466.4	481.5	499.3	506.8
40°	438.2	443.8	461.7	483.3	489.9
42.5°	416.6	423.2	442.0	465.5	473.0
45°	393.1	400.6	421.3	445.7	455.1
47.5°	370.5	378.0	400.6	425.0	436.3
50°	347.0	356.4	379.0	407.2	418.5
52.5°	324.4	332.9	358.3	387.4	397.8
55°	299.0	308.4	336.6	366.7	379.9
57.5°	278.3	284.9	316.0	347.0	360.2
60°	253.0	261.4	293.4	326.3	341.3
62.5°	225.7	239.8	272.7	306.6	321.6
65°	203.1	214.4	252.0	284.9	299.0
67.5°	179.6	191.8	228.5	263.3	279.3
70°	153.3	169.3	207.8	242.6	257.7
72.5°	129.8	146.7	186.2	220.0	236.0
75°	106.3	124.1	162.7	195.6	210.6
77.5°	83.7	103.4	141.1	166.4	175.8
80°	62.1	80.9	113.8	131.6	139.2
82.5°	43.3	59.2	83.7	93.1	95.0
85°	27.3	37.6	50.8	56.4	55.5
87.5°	12.2	15.0	18.8	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)