

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: P277214

Luminaire Tested: **22CZ2-20HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277214
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-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1967.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

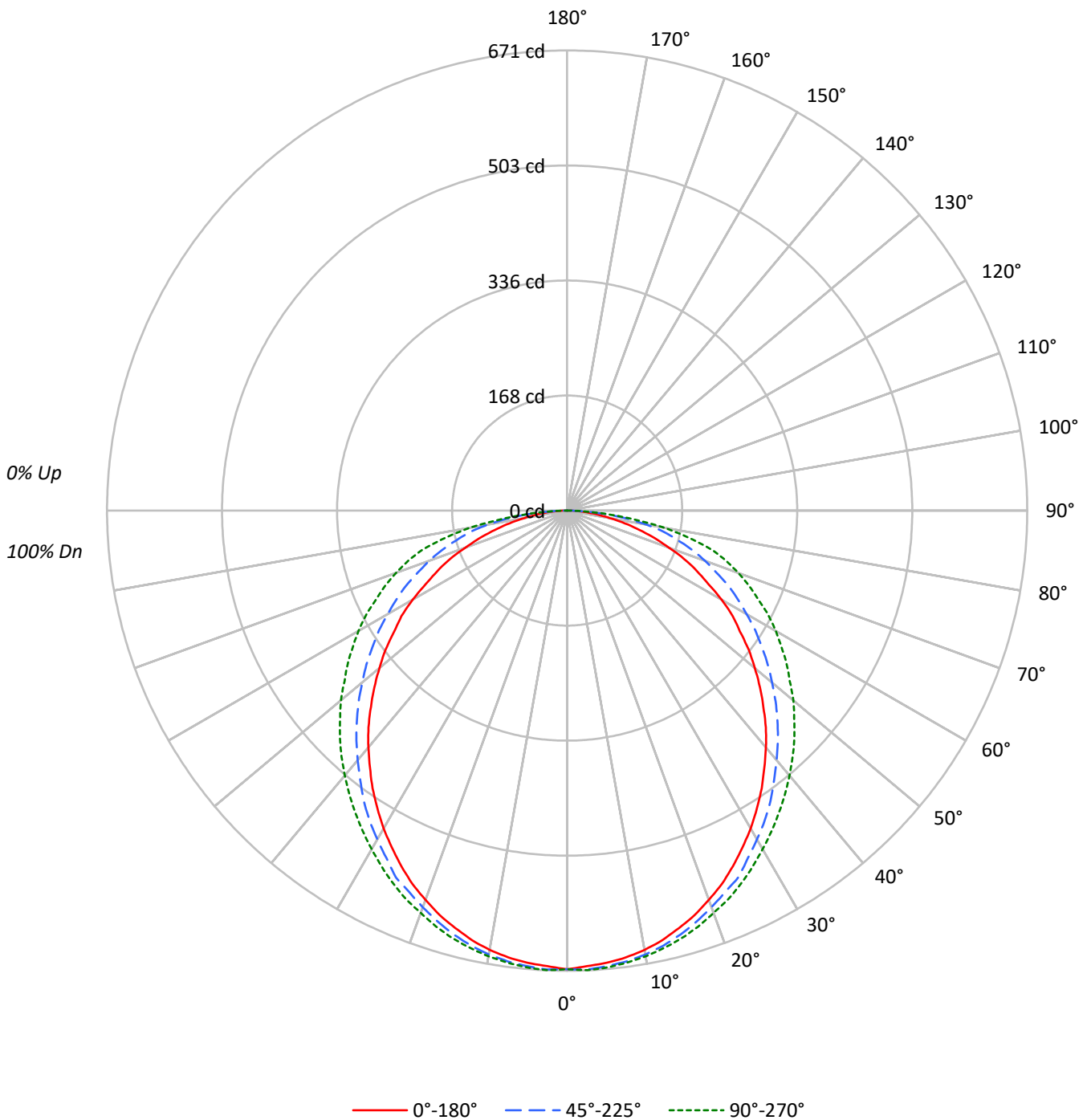
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1800	1800	1800
5°	1788	1801	1807
10°	1777	1796	1804
15°	1755	1782	1799
20°	1730	1763	1788
25°	1698	1753	1782
30°	1663	1720	1771
35°	1625	1698	1768
40°	1584	1669	1772
45°	1540	1650	1783
50°	1495	1633	1803
55°	1444	1626	1834
60°	1401	1625	1891
65°	1331	1652	1960
70°	1242	1683	2087
75°	1137	1740	2254
80°	990	1815	2219
85°	868	1615	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	3.2
10°-20°	180.2	9.2
20°-30°	270.5	13.7
30°-40°	323.2	16.4
40°-50°	336.1	17.1
50°-60°	311.5	15.8
60°-70°	255.5	13.0
70°-80°	172.7	8.8
80°-90°	54.3	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°	513.9	26.1
0°-40°	837.0	42.6
0°-60°	1484.6	75.5
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	662	663	667	668	669	63
15°	630	633	640	644	646	178
25°	572	577	590	597	600	263
35°	495	501	517	532	538	309
45°	405	412	434	459	468	312
55°	308	318	346	378	391	277
65°	209	221	259	293	308	207
75°	109	128	167	201	217	116
85°	28	39	52	58	57	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.8	668.8	668.8	668.8	668.8
2.5°	664.9	666.9	669.8	670.8	670.8
5°	662.0	663.0	666.9	667.8	668.8
7.5°	657.2	659.1	663.0	664.0	664.9
10°	650.4	652.4	657.2	659.1	660.1
12.5°	641.7	643.7	649.5	652.4	653.3
15°	630.1	633.0	639.8	643.7	645.6
17.5°	618.5	621.4	628.2	634.0	635.9
20°	604.0	610.7	615.6	623.3	624.3
22.5°	589.4	593.3	602.0	609.8	613.6
25°	572.0	576.9	590.4	597.2	600.1
27.5°	553.6	560.4	571.1	581.7	585.6
30°	535.2	540.1	553.6	566.2	570.1
32.5°	514.9	521.7	536.2	548.8	554.6
35°	494.6	501.4	516.9	532.3	538.2
37.5°	472.3	480.1	495.6	514.0	521.7
40°	451.0	456.8	475.2	497.5	504.3
42.5°	428.8	435.6	454.9	479.1	486.9
45°	404.6	412.3	433.6	458.8	468.5
47.5°	381.4	389.1	412.3	437.5	449.1
50°	357.2	366.8	390.1	419.1	430.7
52.5°	333.9	342.6	368.8	398.8	409.4
55°	307.8	317.5	346.5	377.5	391.0
57.5°	286.5	293.3	325.2	357.2	370.7
60°	260.4	269.1	302.0	335.9	351.3
62.5°	232.3	246.8	280.7	315.5	331.0
65°	209.1	220.7	259.4	293.3	307.8
67.5°	184.9	197.5	235.2	271.0	287.5
70°	157.8	174.2	213.9	249.7	265.2
72.5°	133.6	151.0	191.6	226.5	242.9
75°	109.4	127.8	167.4	201.3	216.8
77.5°	86.1	106.5	145.2	171.3	181.0
80°	63.9	83.2	117.1	135.5	143.2
82.5°	44.5	61.0	86.1	95.8	97.8
85°	28.1	38.7	52.3	58.1	57.1
87.5°	12.6	15.5	19.4	21.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)