

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: P277268

Luminaire Tested: **22CZ2-20HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277268
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1722.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

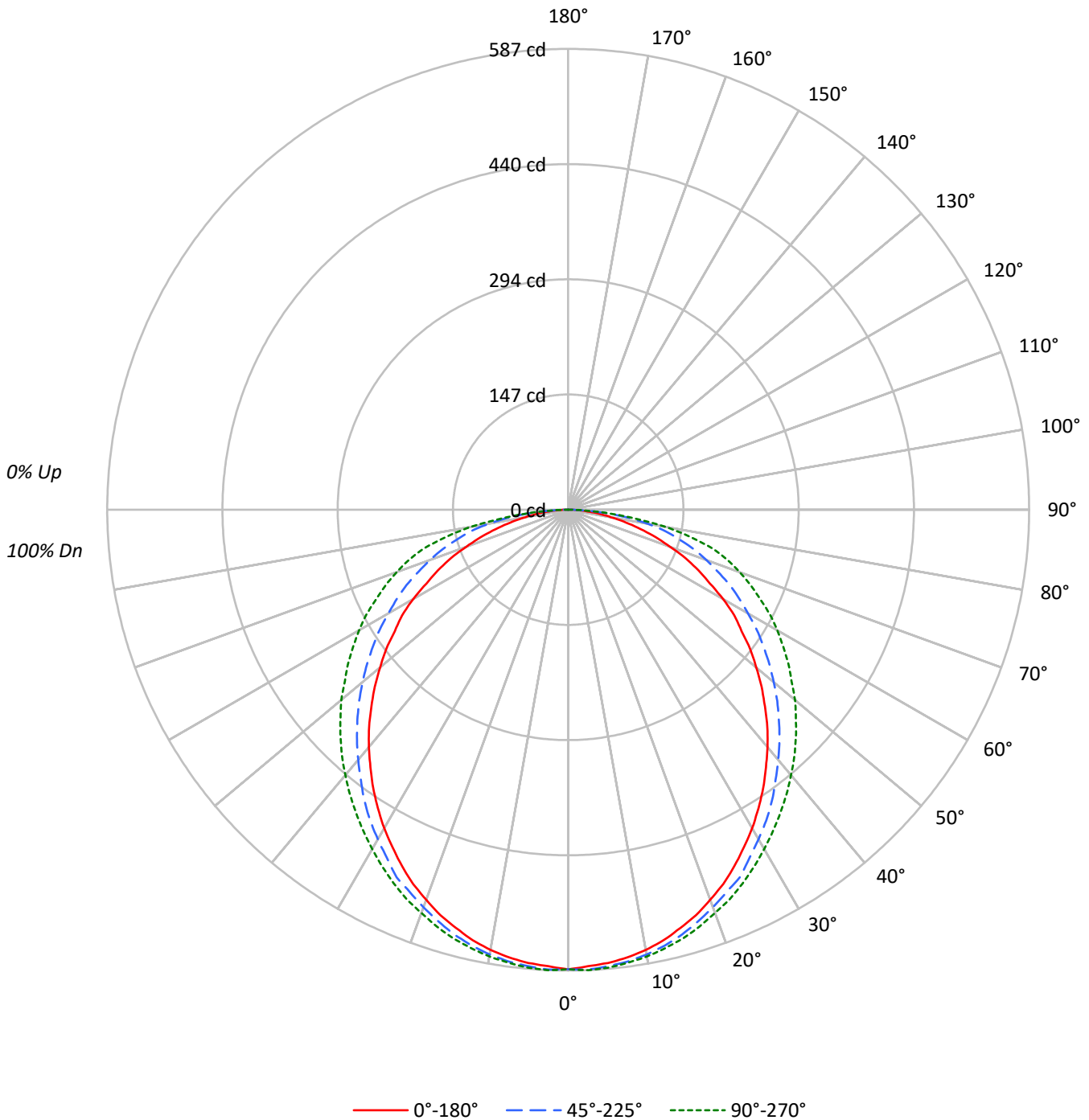
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1576	1576	1576
5°	1566	1577	1582
10°	1556	1572	1579
15°	1537	1560	1575
20°	1514	1543	1565
25°	1487	1535	1560
30°	1456	1506	1551
35°	1422	1486	1548
40°	1387	1461	1551
45°	1348	1445	1561
50°	1309	1430	1579
55°	1264	1423	1606
60°	1227	1423	1655
65°	1165	1446	1716
70°	1087	1474	1827
75°	995	1524	1973
80°	866	1588	1943
85°	760	1414	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	3.2
10°-20°	157.7	9.2
20°-30°	236.8	13.7
30°-40°	282.9	16.4
40°-50°	294.2	17.1
50°-60°	272.7	15.8
60°-70°	223.7	13.0
70°-80°	151.2	8.8
80°-90°	47.5	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°	449.9	26.1
0°-40°	732.8	42.6
0°-60°	1299.6	75.5
0°-90°	1722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	580	580	584	585	586	55
15°	552	554	560	564	565	156
25°	501	505	517	523	525	231
35°	433	439	452	466	471	271
45°	354	361	380	402	410	274
55°	270	278	303	330	342	242
65°	183	193	227	257	270	181
75°	96	112	147	176	190	102
85°	25	34	46	51	50	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	585.5	585.5	585.5	585.5	585.5
2.5°	582.1	583.8	586.4	587.2	587.2
5°	579.6	580.4	583.8	584.7	585.5
7.5°	575.3	577.0	580.4	581.3	582.1
10°	569.4	571.1	575.3	577.0	577.9
12.5°	561.8	563.5	568.6	571.1	572.0
15°	551.6	554.2	560.1	563.5	565.2
17.5°	541.5	544.0	549.9	555.0	556.7
20°	528.7	534.7	538.9	545.7	546.5
22.5°	516.0	519.4	527.0	533.8	537.2
25°	500.8	505.0	516.9	522.8	525.4
27.5°	484.7	490.6	499.9	509.3	512.6
30°	468.6	472.8	484.7	495.7	499.1
32.5°	450.8	456.7	469.4	480.4	485.5
35°	433.0	438.9	452.5	466.0	471.1
37.5°	413.5	420.3	433.8	449.9	456.7
40°	394.9	399.9	416.0	435.5	441.5
42.5°	375.4	381.3	398.2	419.4	426.2
45°	354.2	361.0	379.6	401.6	410.1
47.5°	333.9	340.6	361.0	383.0	393.2
50°	312.7	321.1	341.5	366.9	377.1
52.5°	292.3	300.0	322.8	349.1	358.4
55°	269.5	277.9	303.3	330.5	342.3
57.5°	250.8	256.7	284.7	312.7	324.5
60°	227.9	235.6	264.4	294.0	307.6
62.5°	203.4	216.1	245.7	276.2	289.8
65°	183.0	193.2	227.1	256.7	269.5
67.5°	161.8	172.9	205.9	237.3	251.7
70°	138.1	152.5	187.3	218.6	232.2
72.5°	116.9	132.2	167.8	198.3	212.7
75°	95.7	111.8	146.6	176.2	189.8
77.5°	75.4	93.2	127.1	150.0	158.5
80°	55.9	72.9	102.5	118.6	125.4
82.5°	39.0	53.4	75.4	83.9	85.6
85°	24.6	33.9	45.8	50.8	50.0
87.5°	11.0	13.6	16.9	18.6	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)