

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: P277538

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1911.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

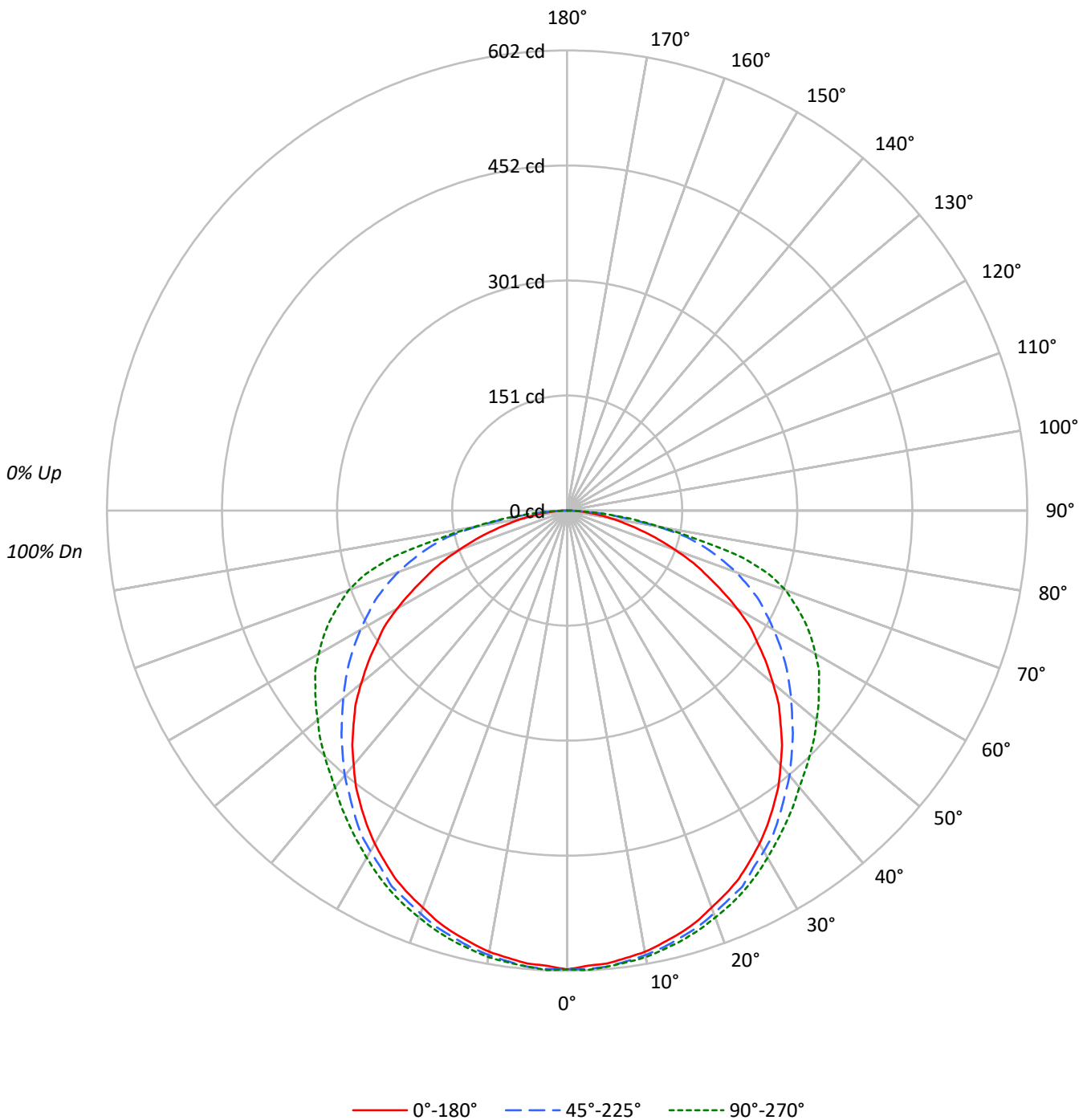
Input Watts (W): 30.825036
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1615	1615	1615
5°	1606	1618	1618
10°	1602	1613	1621
15°	1594	1610	1621
20°	1582	1606	1622
25°	1578	1611	1628
30°	1564	1599	1629
35°	1547	1593	1640
40°	1526	1590	1659
45°	1503	1589	1712
50°	1472	1601	1783
55°	1431	1635	1886
60°	1385	1680	2020
65°	1289	1763	2184
70°	1183	1847	2389
75°	1038	1944	2470
80°	893	1852	1939
85°	781	1346	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.0
10°-20°	163.0	8.5
20°-30°	248.7	13.0
30°-40°	303.7	15.9
40°-50°	324.7	17.0
50°-60°	313.4	16.4
60°-70°	269.8	14.1
70°-80°	182.6	9.6
80°-90°	48.2	2.5
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°	468.6	24.5
0°-40°	772.3	40.4
0°-60°	1410.5	73.8
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°	600	600	600	600	600	
5°	595	596	599	599	599	56
15°	572	574	578	581	582	161
25°	531	534	543	546	548	245
35°	471	475	485	495	499	295
45°	395	402	418	439	450	305
55°	305	315	349	384	402	273
65°	202	222	277	320	343	201
75°	100	132	187	225	238	107
85°	25	35	44	45	48	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	600.3	600.3	600.3	600.3	600.3
2.5°	596.1	597.5	600.3	600.3	601.7
5°	594.7	596.1	598.9	598.9	598.9
7.5°	590.4	591.8	594.7	596.1	596.1
10°	586.2	587.6	590.4	591.8	593.2
12.5°	579.2	580.6	584.8	587.6	587.6
15°	572.2	573.6	577.8	580.6	582.0
17.5°	563.7	566.5	570.8	573.6	575.0
20°	552.5	555.3	560.9	565.1	566.5
22.5°	542.6	545.5	551.1	555.3	558.1
25°	531.4	534.2	542.6	545.5	548.3
27.5°	517.3	520.1	527.2	532.8	537.0
30°	503.3	506.1	514.5	521.6	524.4
32.5°	487.8	492.0	501.9	507.5	511.7
35°	470.9	475.2	485.0	494.8	499.1
37.5°	454.1	458.3	468.1	480.8	486.4
40°	434.4	440.0	452.7	469.5	472.4
42.5°	416.1	423.1	434.4	454.1	461.1
45°	395.0	402.1	417.5	438.6	449.9
47.5°	375.3	382.4	399.2	424.6	438.6
50°	351.5	361.3	382.4	411.9	426.0
52.5°	329.0	337.4	365.5	397.8	414.7
55°	305.1	314.9	348.6	383.8	402.1
57.5°	284.0	292.4	330.4	369.7	390.8
60°	257.3	268.5	312.1	354.3	375.3
62.5°	229.1	246.0	293.8	337.4	359.9
65°	202.4	222.1	276.9	320.5	343.0
67.5°	178.5	199.6	255.9	302.2	323.3
70°	150.4	177.1	234.8	279.8	303.7
72.5°	125.1	154.6	210.9	255.9	276.9
75°	99.8	132.1	187.0	224.9	237.6
77.5°	77.3	108.2	160.3	171.5	172.9
80°	57.6	85.8	119.5	120.9	125.1
82.5°	39.4	60.4	77.3	84.3	85.8
85°	25.3	35.1	43.6	45.0	47.8
87.5°	11.2	12.7	15.5	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)