

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: P260389

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1697.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

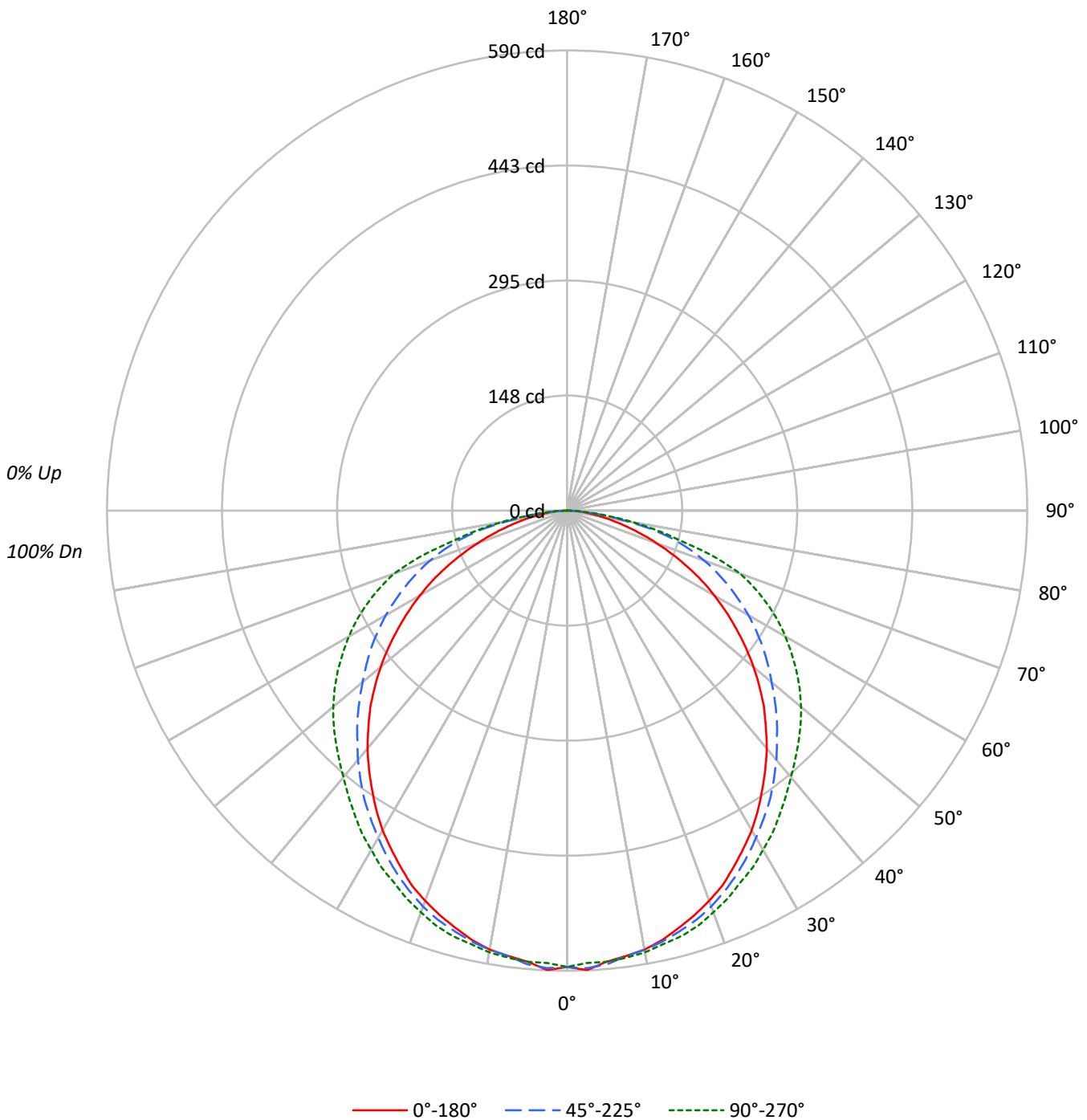
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1574	1574	1574
5°	1568	1577	1568
10°	1562	1562	1571
15°	1543	1555	1574
20°	1525	1547	1570
25°	1498	1528	1561
30°	1470	1505	1561
35°	1433	1488	1562
40°	1399	1466	1568
45°	1358	1447	1596
50°	1307	1433	1639
55°	1244	1438	1685
60°	1174	1445	1740
65°	1082	1453	1802
70°	959	1470	1857
75°	814	1466	1581
80°	676	1179	1317
85°	587	794	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.3
10°-20°	157.7	9.3
20°-30°	237.2	14.0
30°-40°	284.3	16.8
40°-50°	296.4	17.5
50°-60°	276.0	16.3
60°-70°	224.1	13.2
70°-80°	135.1	8.0
80°-90°	31.0	1.8
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°	450.2	26.5
0°-40°	734.4	43.3
0°-60°	1306.9	77.0
0°-90°	1697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	581	581	584	585	581	55
15°	554	556	558	562	565	156
25°	504	508	515	521	526	233
35°	436	442	453	466	475	273
45°	357	364	380	405	420	275
55°	265	276	306	340	359	237
65°	170	188	228	264	283	168
75°	78	104	141	150	152	85
85°	19	24	26	25	25	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	585.1	585.1	585.1	585.1	585.1
2.5°	589.5	588.4	587.3	583.9	580.6
5°	580.6	580.6	583.9	585.1	580.6
7.5°	576.1	576.1	576.1	580.6	578.3
10°	571.6	571.6	571.6	575.0	575.0
12.5°	563.8	564.9	566.0	567.2	569.4
15°	553.7	556.0	558.2	561.6	564.9
17.5°	543.7	545.9	550.4	553.7	558.2
20°	532.5	534.7	540.3	543.7	548.1
22.5°	520.2	521.3	528.0	532.5	538.1
25°	504.5	507.9	514.6	521.3	525.8
27.5°	488.9	492.2	500.0	509.0	515.7
30°	473.2	476.6	484.4	495.6	502.3
32.5°	455.3	459.8	468.7	482.1	490.0
35°	436.3	441.9	453.1	466.5	475.4
37.5°	417.3	422.9	435.2	451.9	460.9
40°	398.2	403.8	417.3	435.2	446.3
42.5°	377.0	383.7	398.2	419.5	432.9
45°	356.9	363.6	380.3	405.0	419.5
47.5°	334.5	342.3	361.3	389.3	406.1
50°	312.1	321.1	342.3	373.6	391.5
52.5°	288.6	298.7	324.4	356.9	375.9
55°	265.1	276.3	306.5	340.1	359.1
57.5°	241.6	253.9	287.5	322.2	341.2
60°	218.1	231.6	268.5	304.3	323.3
62.5°	194.6	209.2	248.3	284.1	304.3
65°	170.0	187.9	228.2	264.0	283.0
67.5°	145.4	166.7	208.1	242.8	260.6
70°	121.9	145.4	186.8	219.3	236.0
72.5°	99.6	124.2	164.4	192.4	199.1
75°	78.3	104.0	141.0	149.9	152.1
77.5°	60.4	83.9	111.9	114.1	119.7
80°	43.6	63.8	76.1	82.8	85.0
82.5°	30.2	43.6	50.3	51.5	52.6
85°	19.0	23.5	25.7	24.6	24.6
87.5°	10.1	8.9	7.8	5.6	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)