

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: P260448

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260448
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-LD5-20-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1617.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

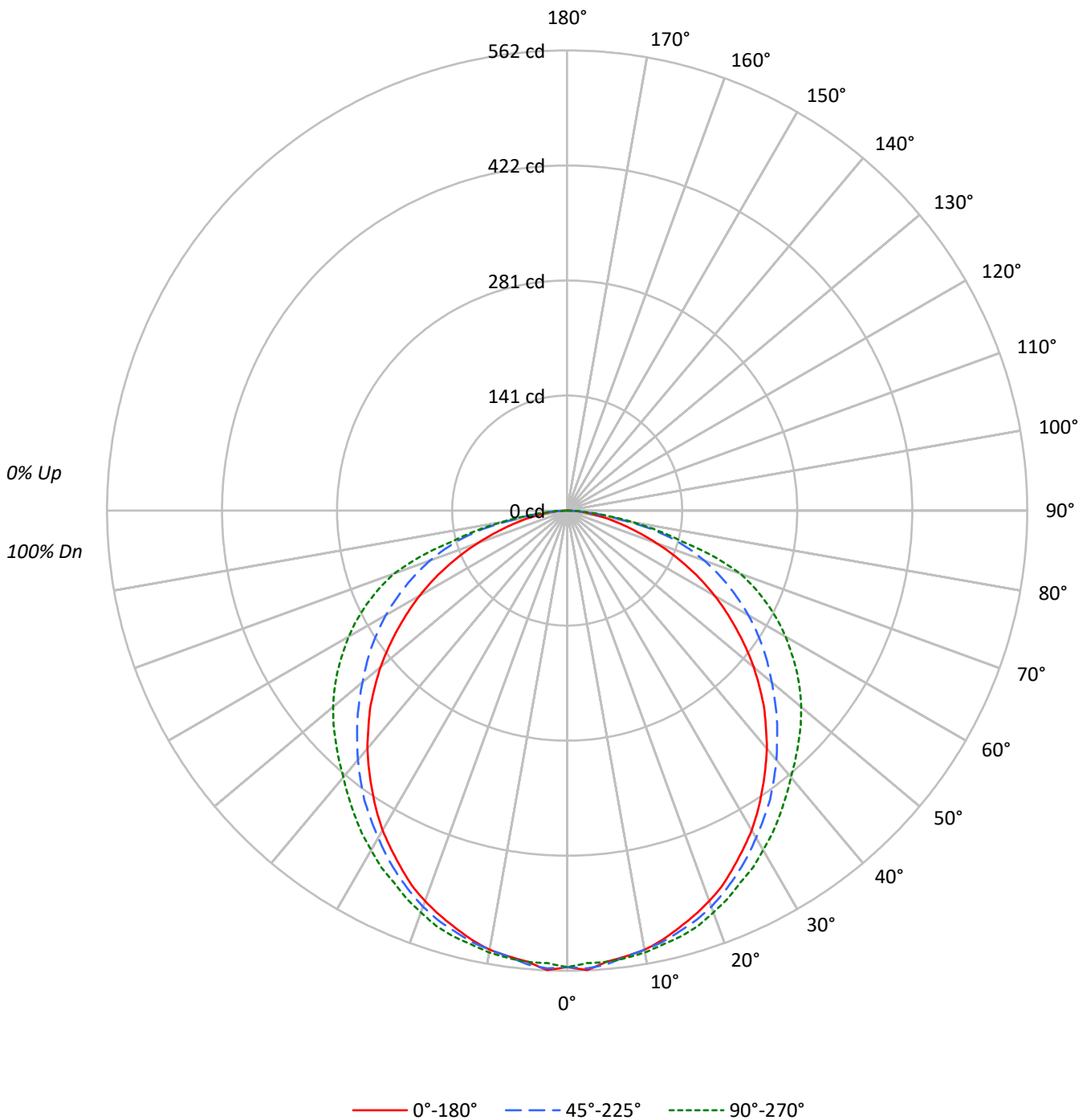
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1500	1500	1500
5°	1494	1503	1494
10°	1488	1488	1497
15°	1470	1482	1500
20°	1453	1474	1496
25°	1427	1456	1488
30°	1401	1434	1487
35°	1366	1418	1488
40°	1333	1397	1494
45°	1294	1379	1521
50°	1245	1366	1562
55°	1185	1370	1605
60°	1119	1377	1658
65°	1032	1384	1717
70°	914	1400	1769
75°	776	1396	1508
80°	645	1124	1255
85°	559	756	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.3
10°-20°	150.2	9.3
20°-30°	226.0	14.0
30°-40°	270.9	16.8
40°-50°	282.5	17.5
50°-60°	263.0	16.3
60°-70°	213.5	13.2
70°-80°	128.7	8.0
80°-90°	29.5	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°	428.9	26.5
0°-40°	699.8	43.3
0°-60°	1245.2	77.0
0°-90°	1617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	553	553	556	558	553	53
15°	528	530	532	535	538	149
25°	481	484	490	497	501	222
35°	416	421	432	444	453	260
45°	340	346	362	386	400	262
55°	253	263	292	324	342	226
65°	162	179	217	252	270	160
75°	75	99	134	143	145	81
85°	18	22	24	24	24	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.5	557.5	557.5	557.5	557.5
2.5°	561.7	560.7	559.6	556.4	553.2
5°	553.2	553.2	556.4	557.5	553.2
7.5°	549.0	549.0	549.0	553.2	551.1
10°	544.7	544.7	544.7	547.9	547.9
12.5°	537.2	538.3	539.4	540.4	542.6
15°	527.6	529.8	531.9	535.1	538.3
17.5°	518.0	520.2	524.4	527.6	531.9
20°	507.4	509.5	514.8	518.0	522.3
22.5°	495.7	496.7	503.1	507.4	512.7
25°	480.7	483.9	490.3	496.7	501.0
27.5°	465.8	469.0	476.5	485.0	491.4
30°	450.9	454.1	461.5	472.2	478.6
32.5°	433.8	438.1	446.6	459.4	466.9
35°	415.7	421.0	431.7	444.5	453.0
37.5°	397.6	402.9	414.6	430.6	439.2
40°	379.5	384.8	397.6	414.6	425.3
42.5°	359.2	365.6	379.5	399.7	412.5
45°	340.0	346.4	362.4	385.9	399.7
47.5°	318.7	326.2	344.3	370.9	386.9
50°	297.4	305.9	326.2	356.0	373.1
52.5°	275.0	284.6	309.1	340.0	358.2
55°	252.6	263.3	292.1	324.0	342.2
57.5°	230.2	242.0	273.9	307.0	325.1
60°	207.9	220.6	255.8	289.9	308.1
62.5°	185.5	199.3	236.6	270.7	289.9
65°	162.0	179.1	217.4	251.6	269.7
67.5°	138.6	158.8	198.3	231.3	248.4
70°	116.2	138.6	178.0	208.9	224.9
72.5°	94.9	118.3	156.7	183.3	189.7
75°	74.6	99.1	134.3	142.8	145.0
77.5°	57.6	79.9	106.6	108.7	114.1
80°	41.6	60.8	72.5	78.9	81.0
82.5°	28.8	41.6	48.0	49.0	50.1
85°	18.1	22.4	24.5	23.5	23.5
87.5°	9.6	8.5	7.5	5.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)