

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: P260515

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260515
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-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

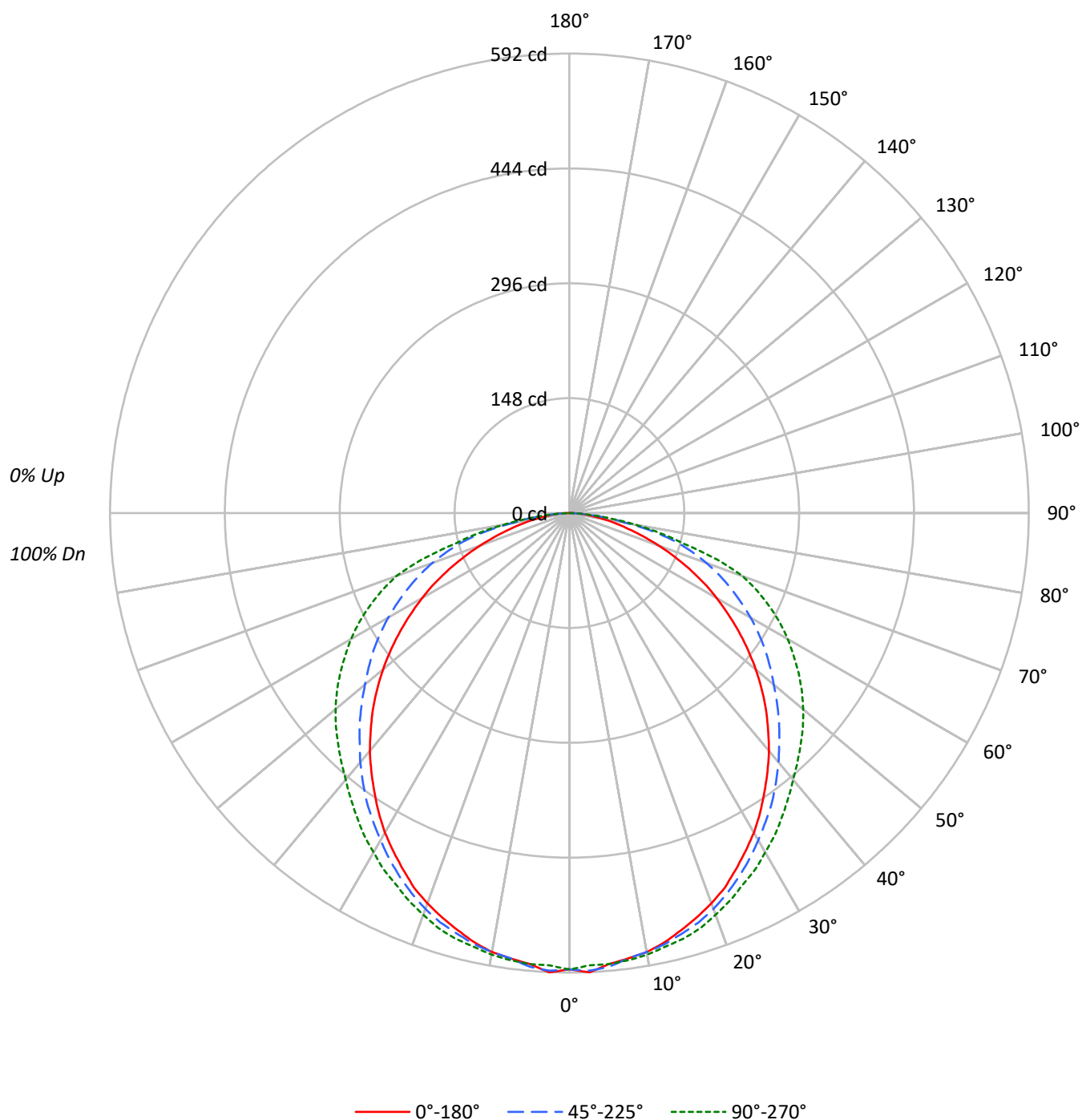
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1582	1582	1582
5°	1576	1585	1576
10°	1569	1569	1579
15°	1550	1562	1581
20°	1532	1555	1577
25°	1505	1535	1569
30°	1477	1512	1568
35°	1440	1495	1569
40°	1405	1473	1576
45°	1364	1454	1604
50°	1313	1440	1647
55°	1250	1445	1693
60°	1180	1452	1748
65°	1088	1460	1811
70°	964	1477	1866
75°	818	1472	1590
80°	679	1184	1323
85°	590	800	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.3
10°-20°	158.4	9.3
20°-30°	238.3	14.0
30°-40°	285.6	16.8
40°-50°	297.8	17.5
50°-60°	277.3	16.3
60°-70°	225.2	13.2
70°-80°	135.7	8.0
80°-90°	31.1	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°	452.3	26.5
0°-40°	737.9	43.3
0°-60°	1313.0	77.0
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	583	583	587	588	583	55
15°	556	559	561	564	568	157
25°	507	510	517	524	528	234
35°	438	444	455	469	478	274
45°	358	365	382	407	422	276
55°	266	278	308	342	361	238
65°	171	189	229	265	284	169
75°	79	104	142	151	153	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°	587.8	587.8	587.8	587.8	587.8
2.5°	592.3	591.2	590.1	586.7	583.3
5°	583.3	583.3	586.7	587.8	583.3
7.5°	578.8	578.8	578.8	583.3	581.1
10°	574.3	574.3	574.3	577.7	577.7
12.5°	566.5	567.6	568.7	569.8	572.1
15°	556.3	558.6	560.8	564.2	567.6
17.5°	546.2	548.5	553.0	556.3	560.8
20°	535.0	537.2	542.9	546.2	550.7
22.5°	522.6	523.8	530.5	535.0	540.6
25°	506.9	510.3	517.0	523.8	528.3
27.5°	491.2	494.5	502.4	511.4	518.1
30°	475.4	478.8	486.7	497.9	504.6
32.5°	457.4	461.9	470.9	484.4	492.3
35°	438.3	444.0	455.2	468.7	477.7
37.5°	419.2	424.8	437.2	454.1	463.1
40°	400.1	405.7	419.2	437.2	448.5
42.5°	378.8	385.5	400.1	421.5	435.0
45°	358.5	365.3	382.1	406.9	421.5
47.5°	336.1	343.9	363.0	391.1	408.0
50°	313.6	322.6	343.9	375.4	393.4
52.5°	290.0	300.1	325.9	358.5	377.6
55°	266.4	277.6	308.0	341.7	360.8
57.5°	242.8	255.1	288.9	323.7	342.8
60°	219.2	232.7	269.7	305.7	324.8
62.5°	195.6	210.2	249.5	285.5	305.7
65°	170.8	188.8	229.3	265.2	284.4
67.5°	146.1	167.5	209.1	243.9	261.9
70°	122.5	146.1	187.7	220.3	237.2
72.5°	100.0	124.8	165.2	193.3	200.1
75°	78.7	104.5	141.6	150.6	152.9
77.5°	60.7	84.3	112.4	114.6	120.3
80°	43.8	64.1	76.4	83.2	85.4
82.5°	30.3	43.8	50.6	51.7	52.8
85°	19.1	23.6	25.9	24.7	24.7
87.5°	10.1	9.0	7.9	5.6	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)