

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: P260420

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260420
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-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.0 lumens
Efficiency: N/A
Efficacy: 85.3 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

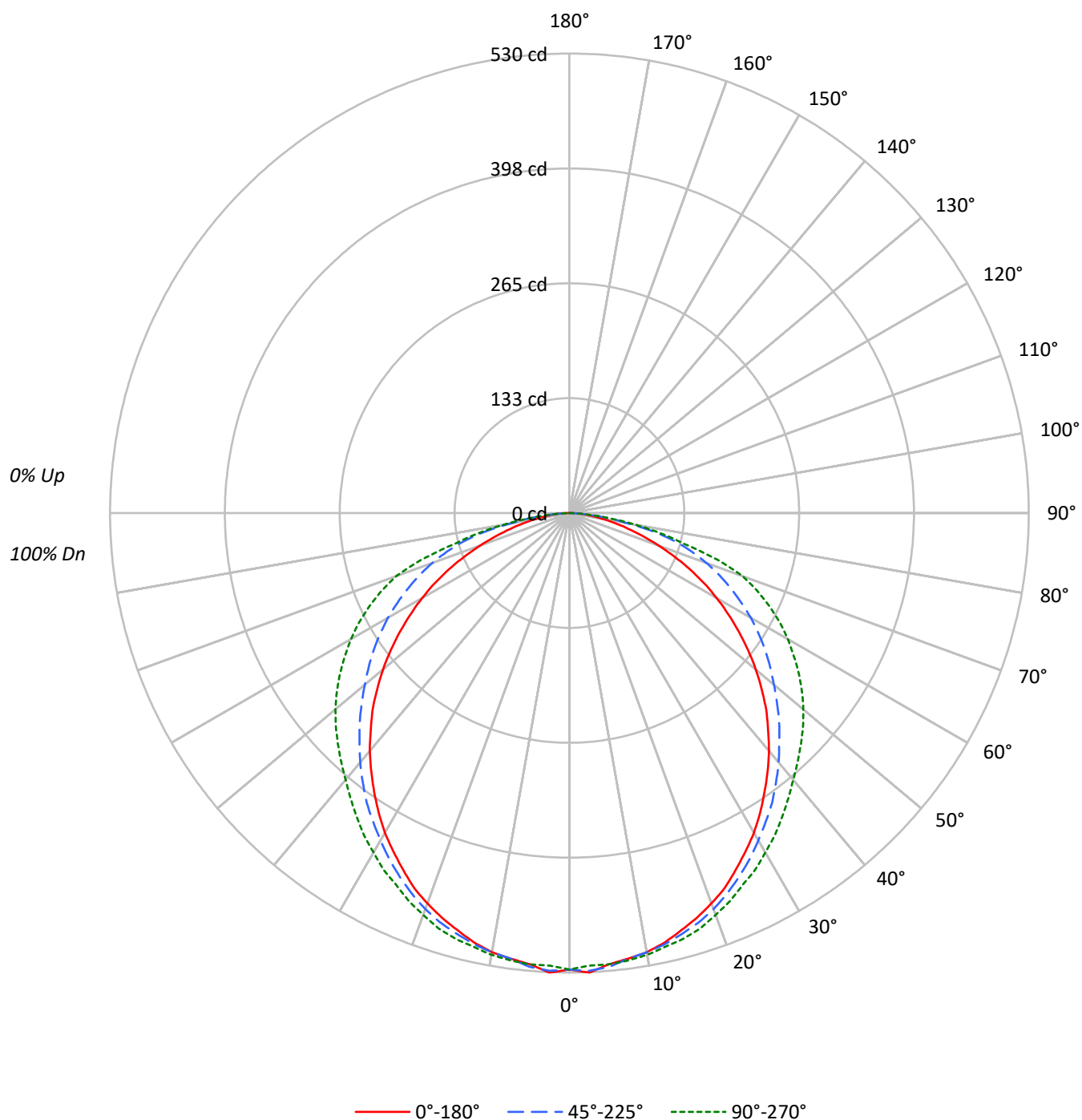
Input Watts (W): 17.910963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1417	1417	1417
5°	1411	1419	1411
10°	1406	1406	1414
15°	1388	1399	1416
20°	1372	1392	1412
25°	1348	1375	1405
30°	1323	1354	1404
35°	1290	1339	1405
40°	1259	1319	1411
45°	1222	1302	1437
50°	1176	1289	1475
55°	1119	1294	1516
60°	1056	1300	1566
65°	974	1307	1622
70°	863	1323	1671
75°	733	1318	1423
80°	609	1060	1185
85°	528	716	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.3
10°-20°	141.9	9.3
20°-30°	213.5	14.0
30°-40°	255.8	16.8
40°-50°	266.7	17.5
50°-60°	248.3	16.3
60°-70°	201.7	13.2
70°-80°	121.5	8.0
80°-90°	27.9	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°	405.1	26.5
0°-40°	660.9	43.3
0°-60°	1176.0	77.0
0°-90°	1527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	522	522	525	526	522	50
15°	498	500	502	505	508	141
25°	454	457	463	469	473	209
35°	393	398	408	420	428	246
45°	321	327	342	364	378	247
55°	239	249	276	306	323	213
65°	153	169	205	238	255	151
75°	70	94	127	135	137	76
85°	17	21	23	22	22	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	526.5	526.5	526.5	526.5	526.5
2.5°	530.5	529.5	528.5	525.4	522.4
5°	522.4	522.4	525.4	526.5	522.4
7.5°	518.4	518.4	518.4	522.4	520.4
10°	514.4	514.4	514.4	517.4	517.4
12.5°	507.3	508.3	509.3	510.3	512.4
15°	498.3	500.3	502.3	505.3	508.3
17.5°	489.2	491.2	495.2	498.3	502.3
20°	479.1	481.2	486.2	489.2	493.2
22.5°	468.1	469.1	475.1	479.1	484.2
25°	454.0	457.0	463.0	469.1	473.1
27.5°	439.9	442.9	450.0	458.0	464.0
30°	425.8	428.8	435.9	445.9	452.0
32.5°	409.7	413.7	421.8	433.8	440.9
35°	392.6	397.6	407.7	419.8	427.8
37.5°	375.5	380.5	391.6	406.7	414.7
40°	358.3	363.4	375.5	391.6	401.6
42.5°	339.2	345.3	358.3	377.5	389.6
45°	321.1	327.1	342.2	364.4	377.5
47.5°	301.0	308.0	325.1	350.3	365.4
50°	280.8	288.9	308.0	336.2	352.3
52.5°	259.7	268.8	291.9	321.1	338.2
55°	238.6	248.6	275.8	306.0	323.1
57.5°	217.4	228.5	258.7	289.9	307.0
60°	196.3	208.4	241.6	273.8	290.9
62.5°	175.1	188.2	223.5	255.7	273.8
65°	153.0	169.1	205.3	237.6	254.7
67.5°	130.9	150.0	187.2	218.4	234.5
70°	109.7	130.9	168.1	197.3	212.4
72.5°	89.6	111.7	148.0	173.1	179.2
75°	70.5	93.6	126.8	134.9	136.9
77.5°	54.4	75.5	100.7	102.7	107.7
80°	39.3	57.4	68.4	74.5	76.5
82.5°	27.2	39.3	45.3	46.3	47.3
85°	17.1	21.1	23.2	22.1	22.1
87.5°	9.1	8.1	7.0	5.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)