

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: P260421

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260421
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1649.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

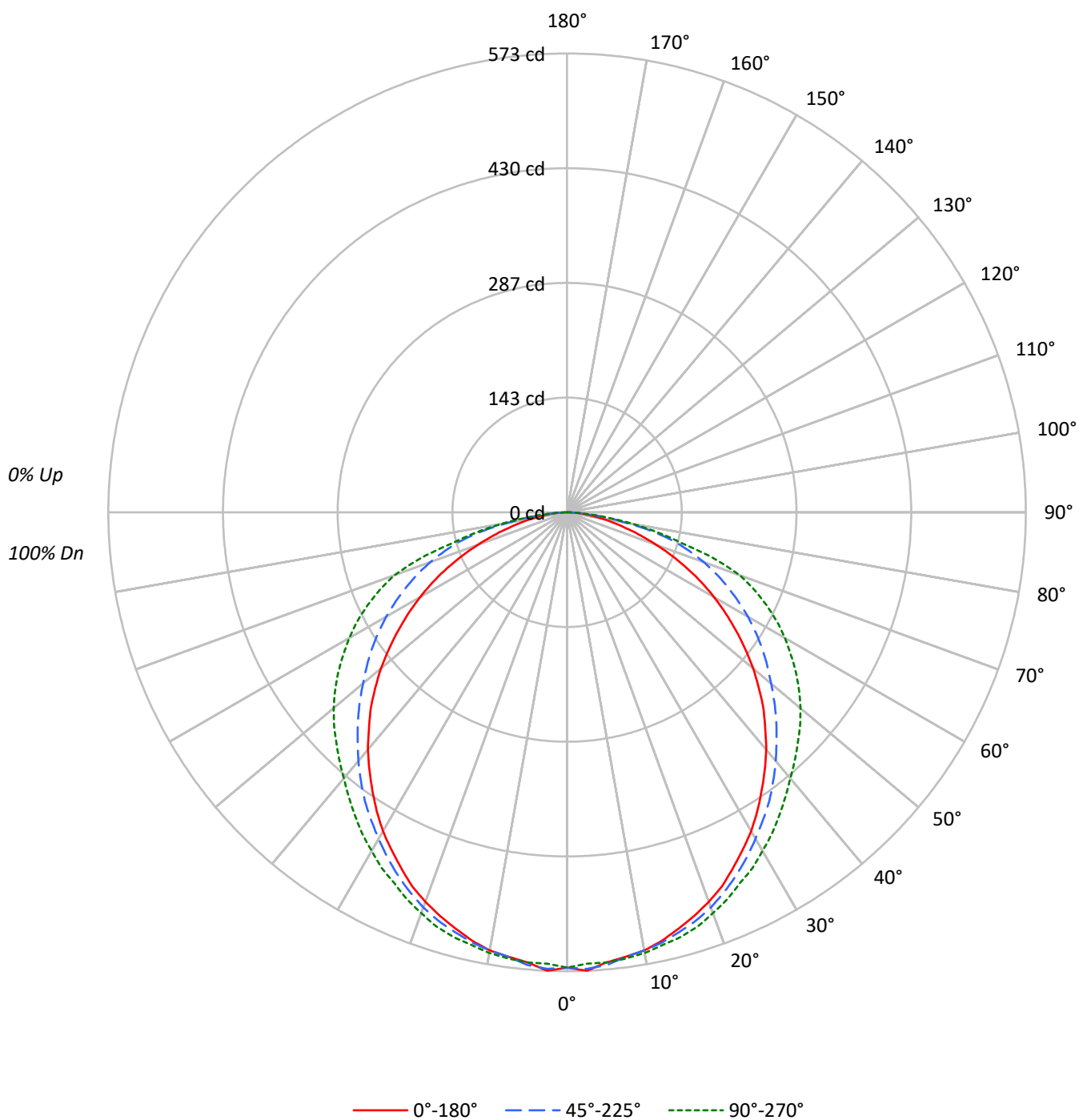
Input Watts (W): 18.034002
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1530	1530	1530
5°	1524	1533	1524
10°	1518	1518	1527
15°	1499	1511	1529
20°	1482	1503	1525
25°	1455	1485	1517
30°	1429	1463	1517
35°	1393	1446	1518
40°	1359	1424	1524
45°	1320	1407	1551
50°	1270	1392	1593
55°	1209	1397	1637
60°	1141	1404	1690
65°	1052	1412	1751
70°	932	1428	1805
75°	791	1424	1537
80°	657	1145	1280
85°	571	772	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	3.3
10°-20°	153.2	9.3
20°-30°	230.5	14.0
30°-40°	276.2	16.8
40°-50°	288.1	17.5
50°-60°	268.2	16.3
60°-70°	217.8	13.2
70°-80°	131.2	8.0
80°-90°	30.1	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°	437.4	26.5
0°-40°	713.7	43.3
0°-60°	1269.9	77.0
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	564	564	567	568	564	54
15°	538	540	542	546	549	152
25°	490	494	500	507	511	226
35°	424	429	440	453	462	265
45°	347	353	370	394	408	267
55°	258	268	298	330	349	230
65°	165	183	222	256	275	163
75°	76	101	137	146	148	82
85°	18	23	25	24	24	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.5	568.5	568.5	568.5	568.5
2.5°	572.9	571.8	570.7	567.4	564.2
5°	564.2	564.2	567.4	568.5	564.2
7.5°	559.8	559.8	559.8	564.2	562.0
10°	555.5	555.5	555.5	558.7	558.7
12.5°	547.9	548.9	550.0	551.1	553.3
15°	538.1	540.3	542.4	545.7	548.9
17.5°	528.3	530.5	534.8	538.1	542.4
20°	517.4	519.6	525.0	528.3	532.6
22.5°	505.5	506.6	513.1	517.4	522.9
25°	490.2	493.5	500.0	506.6	510.9
27.5°	475.0	478.3	485.9	494.6	501.1
30°	459.8	463.1	470.7	481.6	488.1
32.5°	442.4	446.8	455.5	468.5	476.1
35°	423.9	429.4	440.2	453.3	462.0
37.5°	405.5	410.9	422.9	439.2	447.9
40°	387.0	392.4	405.5	422.9	433.7
42.5°	366.3	372.8	387.0	407.6	420.7
45°	346.8	353.3	369.6	393.5	407.6
47.5°	325.0	332.6	351.1	378.3	394.6
50°	303.3	312.0	332.6	363.1	380.5
52.5°	280.5	290.2	315.2	346.8	365.2
55°	257.6	268.5	297.8	330.5	348.9
57.5°	234.8	246.8	279.4	313.1	331.5
60°	212.0	225.0	260.9	295.7	314.1
62.5°	189.1	203.3	241.3	276.1	295.7
65°	165.2	182.6	221.8	256.5	275.0
67.5°	141.3	162.0	202.2	235.9	253.3
70°	118.5	141.3	181.5	213.1	229.4
72.5°	96.7	120.7	159.8	187.0	193.5
75°	76.1	101.1	137.0	145.7	147.8
77.5°	58.7	81.5	108.7	110.9	116.3
80°	42.4	62.0	73.9	80.4	82.6
82.5°	29.3	42.4	48.9	50.0	51.1
85°	18.5	22.8	25.0	23.9	23.9
87.5°	9.8	8.7	7.6	5.4	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)