

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: P260228

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1873.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

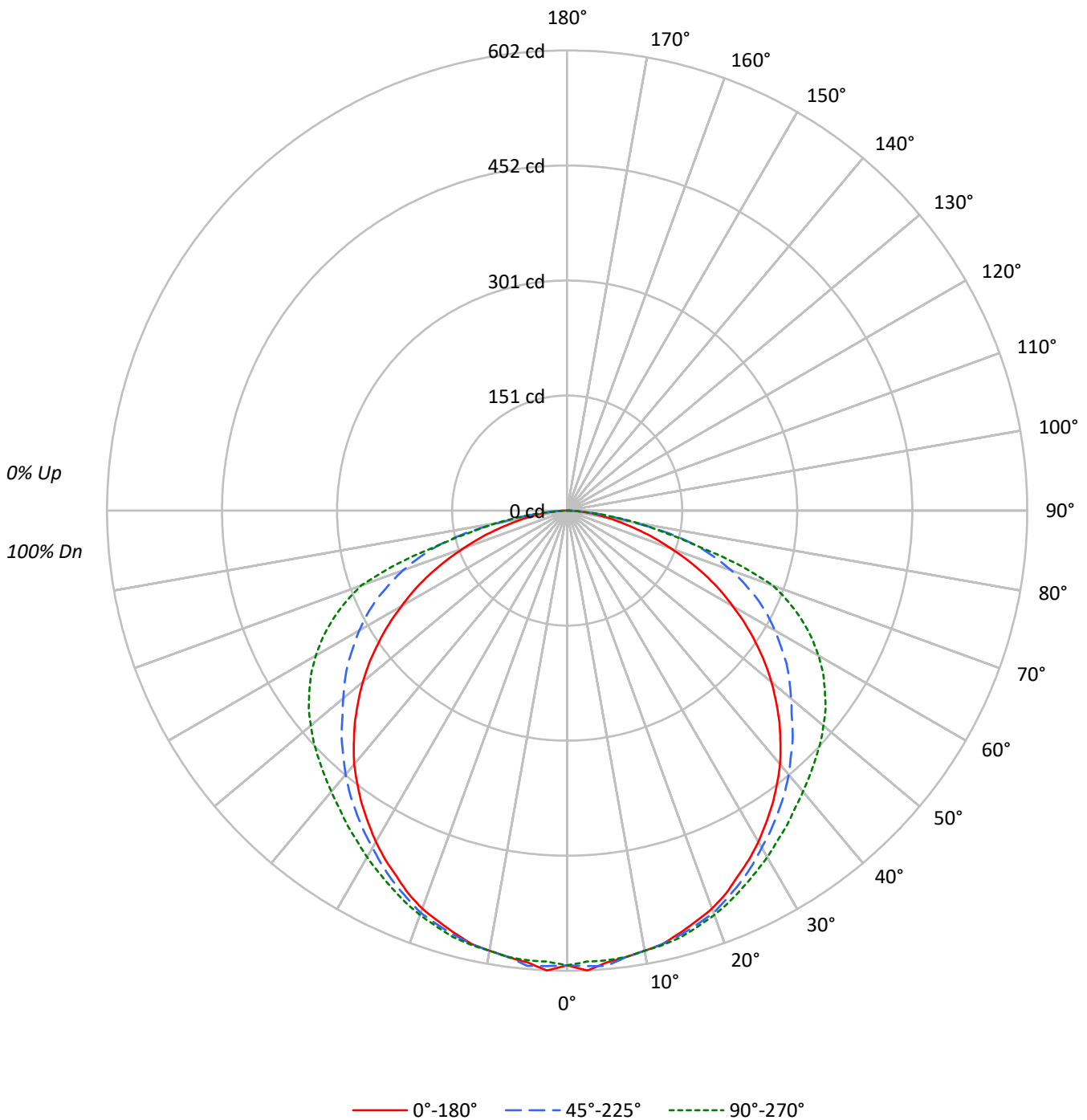
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1601	1601	1601
5°	1603	1615	1595
10°	1598	1598	1598
15°	1592	1601	1609
20°	1587	1604	1612
25°	1568	1594	1615
30°	1555	1582	1627
35°	1539	1582	1648
40°	1523	1584	1686
45°	1494	1589	1749
50°	1461	1601	1833
55°	1413	1644	1931
60°	1347	1691	2043
65°	1269	1750	2158
70°	1133	1797	2254
75°	983	1800	1784
80°	834	1330	1443
85°	719	898	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.0
10°-20°	162.2	8.7
20°-30°	247.2	13.2
30°-40°	302.5	16.1
40°-50°	325.4	17.4
50°-60°	315.2	16.8
60°-70°	267.0	14.3
70°-80°	161.4	8.6
80°-90°	35.5	1.9
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°	465.9	24.9
0°-40°	768.4	41.0
0°-60°	1409.1	75.2
0°-90°	1873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	594	594	598	595	591	56
15°	572	573	575	576	578	161
25°	528	531	537	541	544	244
35°	468	471	482	495	502	293
45°	393	400	418	444	460	303
55°	301	314	350	391	412	269
65°	199	221	275	318	339	196
75°	94	128	173	176	172	102
85°	23	28	29	28	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.9	594.9	594.9	594.9	594.9
2.5°	602.2	600.7	596.4	593.5	590.6
5°	593.5	593.5	597.8	594.9	590.6
7.5°	589.1	589.1	589.1	596.4	589.1
10°	584.7	586.2	584.7	590.6	584.7
12.5°	580.4	580.4	580.4	581.8	581.8
15°	571.6	573.1	574.6	576.0	577.5
17.5°	562.9	564.4	567.3	568.7	570.2
20°	554.2	555.6	560.0	560.0	562.9
22.5°	542.6	542.6	548.4	549.8	554.2
25°	528.0	530.9	536.7	541.1	544.0
27.5°	514.9	517.8	523.6	529.5	533.8
30°	500.4	503.3	509.1	517.8	523.6
32.5°	484.4	487.3	496.0	506.2	512.0
35°	468.4	471.3	481.5	494.6	501.8
37.5°	450.9	455.3	466.9	481.5	490.2
40°	433.5	437.8	450.9	466.9	480.0
42.5°	413.1	418.9	433.5	455.3	469.8
45°	392.7	400.0	417.5	443.6	459.6
47.5°	370.9	378.2	398.5	432.0	449.5
50°	349.1	357.8	382.5	418.9	437.8
52.5°	325.8	334.5	366.5	405.8	426.2
55°	301.1	314.2	350.5	391.3	411.6
57.5°	276.4	290.9	331.6	375.3	397.1
60°	250.2	267.6	314.2	357.8	379.6
62.5°	225.5	244.4	295.3	338.9	360.7
65°	199.3	221.1	274.9	318.5	338.9
67.5°	171.6	199.3	251.6	293.8	314.2
70°	144.0	176.0	228.4	267.6	286.5
72.5°	119.3	152.7	202.2	235.6	235.6
75°	94.5	128.0	173.1	176.0	171.6
77.5°	72.7	104.7	135.3	123.6	126.5
80°	53.8	80.0	85.8	90.2	93.1
82.5°	36.4	53.8	55.3	58.2	58.2
85°	23.3	27.6	29.1	27.6	26.2
87.5°	10.2	11.6	8.7	5.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)