

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: P260262

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260262
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-LD5-34-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1828.0 lumens
Efficiency: N/A
Efficacy: 69.9 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

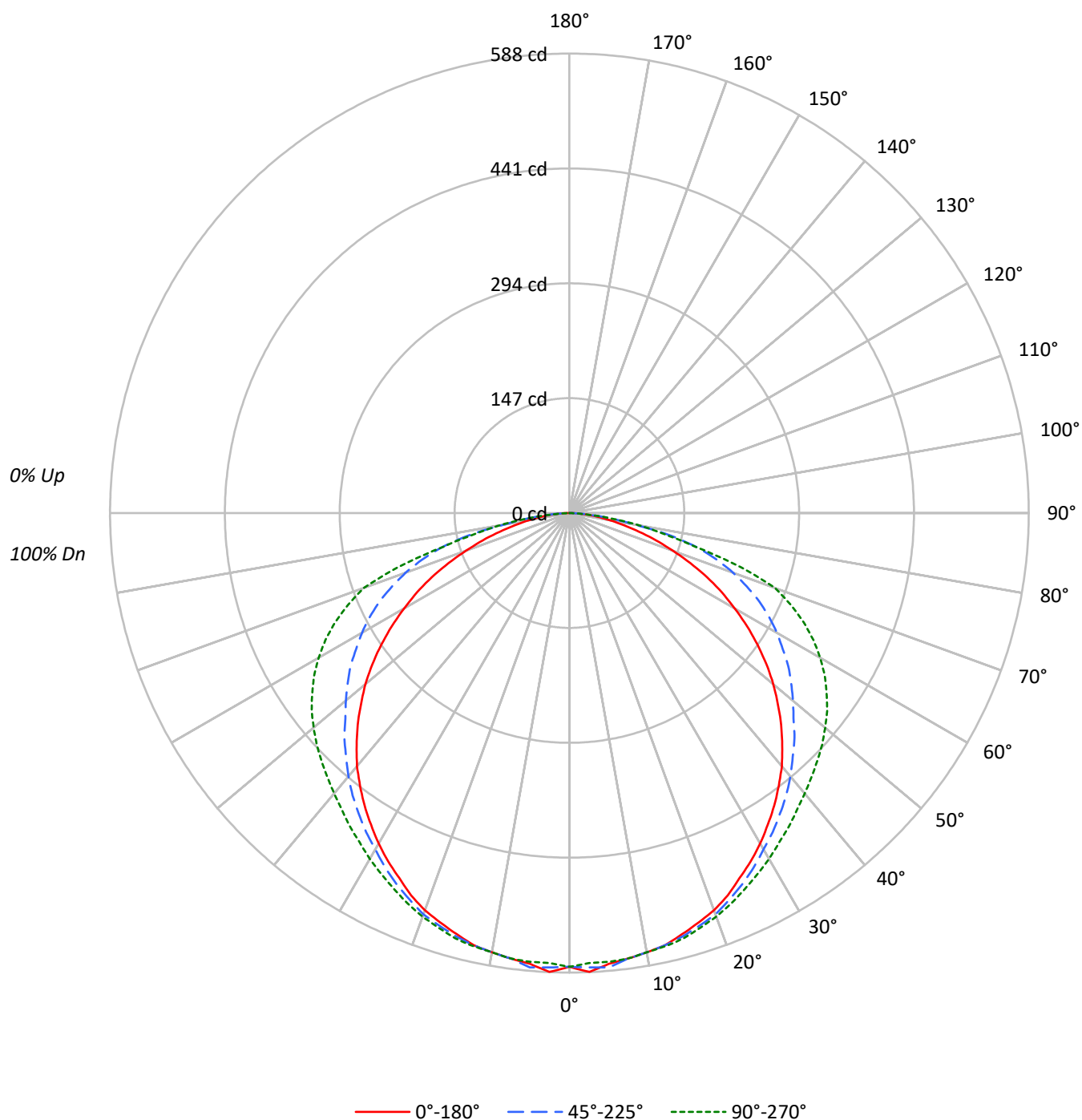
Input Watts (W): 26.155692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1562	1562	1562
5°	1565	1576	1557
10°	1559	1559	1559
15°	1554	1562	1570
20°	1549	1565	1573
25°	1530	1555	1576
30°	1517	1544	1588
35°	1502	1544	1609
40°	1486	1546	1646
45°	1459	1550	1707
50°	1426	1563	1789
55°	1379	1605	1885
60°	1314	1650	1994
65°	1238	1708	2106
70°	1105	1754	2201
75°	960	1756	1742
80°	814	1299	1409
85°	701	877	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.3	8.7
20°-30°	241.3	13.2
30°-40°	295.2	16.1
40°-50°	317.6	17.4
50°-60°	307.7	16.8
60°-70°	260.6	14.3
70°-80°	157.5	8.6
80°-90°	34.6	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°	454.7	24.9
0°-40°	749.9	41.0
0°-60°	1375.2	75.2
0°-90°	1828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	579	579	584	581	576	55
15°	558	559	561	562	564	158
25°	515	518	524	528	531	238
35°	457	460	470	483	490	286
45°	383	390	407	433	449	295
55°	294	307	342	382	402	263
65°	194	216	268	311	331	192
75°	92	125	169	172	168	99
85°	23	27	28	27	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.6	580.6	580.6	580.6	580.6
2.5°	587.7	586.3	582.0	579.2	576.4
5°	579.2	579.2	583.5	580.6	576.4
7.5°	574.9	574.9	574.9	582.0	574.9
10°	570.7	572.1	570.7	576.4	570.7
12.5°	566.4	566.4	566.4	567.8	567.8
15°	557.9	559.3	560.7	562.2	563.6
17.5°	549.4	550.8	553.6	555.1	556.5
20°	540.9	542.3	546.6	546.6	549.4
22.5°	529.5	529.5	535.2	536.6	540.9
25°	515.3	518.2	523.8	528.1	530.9
27.5°	502.5	505.4	511.1	516.7	521.0
30°	488.3	491.2	496.9	505.4	511.1
32.5°	472.7	475.6	484.1	494.0	499.7
35°	457.1	460.0	469.9	482.7	489.8
37.5°	440.1	444.3	455.7	469.9	478.4
40°	423.0	427.3	440.1	455.7	468.5
42.5°	403.2	408.8	423.0	444.3	458.5
45°	383.3	390.4	407.4	433.0	448.6
47.5°	362.0	369.1	389.0	421.6	438.7
50°	340.7	349.2	373.4	408.8	427.3
52.5°	318.0	326.5	357.7	396.1	415.9
55°	293.9	306.6	342.1	381.9	401.8
57.5°	269.7	283.9	323.7	366.3	387.6
60°	244.2	261.2	306.6	349.2	370.5
62.5°	220.0	238.5	288.2	330.8	352.1
65°	194.5	215.8	268.3	310.9	330.8
67.5°	167.5	194.5	245.6	286.8	306.6
70°	140.5	171.8	222.9	261.2	279.7
72.5°	116.4	149.1	197.3	230.0	230.0
75°	92.3	124.9	168.9	171.8	167.5
77.5°	71.0	102.2	132.0	120.7	123.5
80°	52.5	78.1	83.8	88.0	90.9
82.5°	35.5	52.5	53.9	56.8	56.8
85°	22.7	27.0	28.4	27.0	25.6
87.5°	9.9	11.4	8.5	5.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)