

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: P260227

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260227
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1784.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

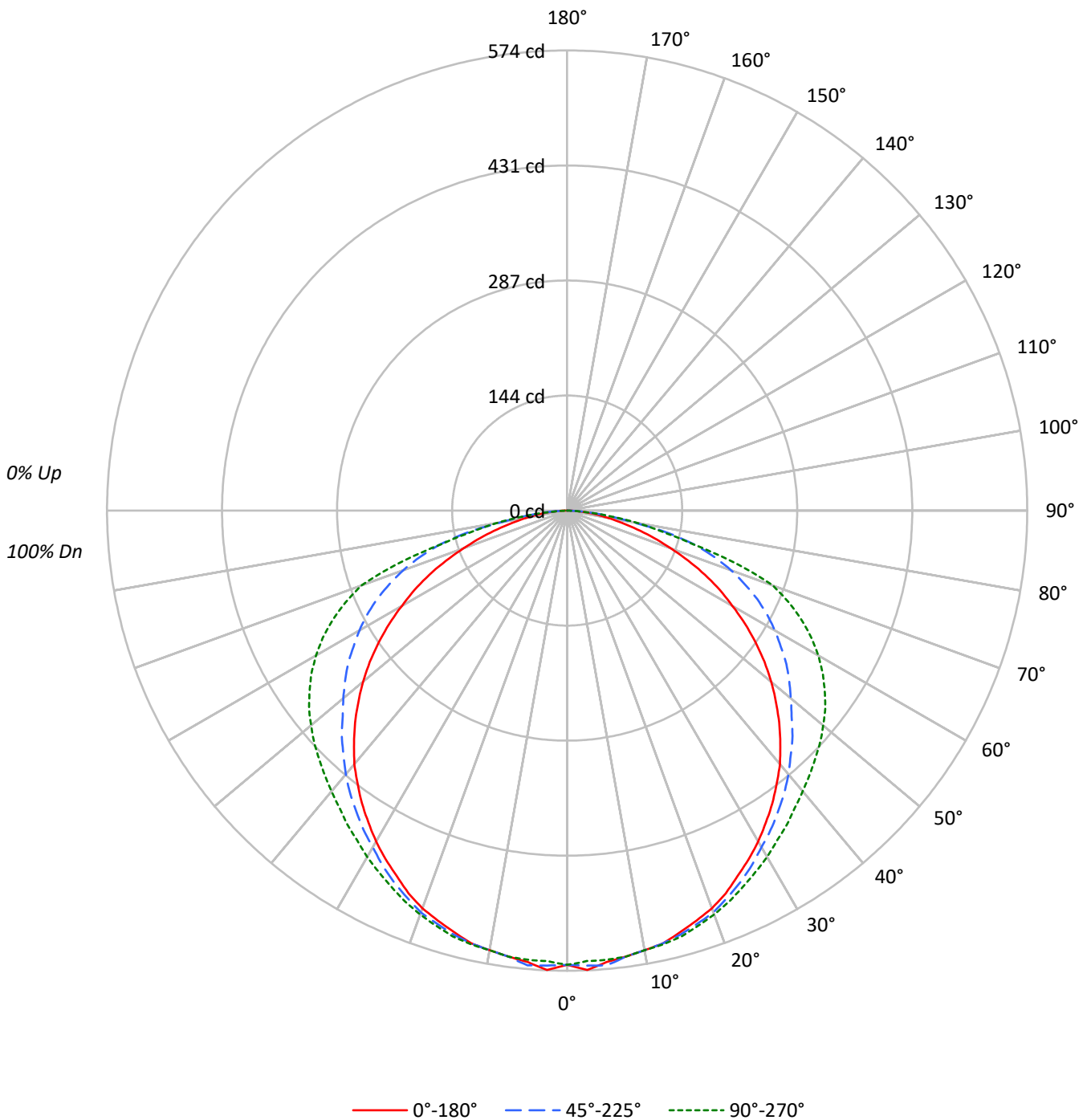
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1525	1525	1525
5°	1527	1538	1519
10°	1522	1522	1522
15°	1517	1525	1532
20°	1512	1527	1536
25°	1493	1518	1539
30°	1481	1507	1550
35°	1465	1507	1570
40°	1450	1509	1606
45°	1424	1513	1666
50°	1392	1526	1746
55°	1346	1567	1840
60°	1283	1611	1946
65°	1209	1667	2055
70°	1079	1711	2147
75°	937	1714	1700
80°	795	1266	1375
85°	685	855	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	3.0
10°-20°	154.5	8.7
20°-30°	235.5	13.2
30°-40°	288.1	16.1
40°-50°	310.0	17.4
50°-60°	300.3	16.8
60°-70°	254.4	14.3
70°-80°	153.8	8.6
80°-90°	33.8	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°	443.8	24.9
0°-40°	731.9	41.0
0°-60°	1342.1	75.2
0°-90°	1784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	565	565	569	567	562	54
15°	544	546	547	549	550	154
25°	503	506	511	515	518	232
35°	446	449	459	471	478	279
45°	374	381	398	423	438	288
55°	287	299	334	373	392	256
65°	190	211	262	303	323	187
75°	90	122	165	168	164	97
85°	22	26	28	26	25	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.6	566.6	566.6	566.6	566.6
2.5°	573.6	572.2	568.0	565.3	562.5
5°	565.3	565.3	569.4	566.6	562.5
7.5°	561.1	561.1	561.1	568.0	561.1
10°	556.9	558.3	556.9	562.5	556.9
12.5°	552.8	552.8	552.8	554.2	554.2
15°	544.5	545.9	547.3	548.6	550.0
17.5°	536.2	537.6	540.3	541.7	543.1
20°	527.9	529.2	533.4	533.4	536.2
22.5°	516.8	516.8	522.3	523.7	527.9
25°	502.9	505.7	511.2	515.4	518.2
27.5°	490.4	493.2	498.8	504.3	508.5
30°	476.6	479.4	484.9	493.2	498.8
32.5°	461.4	464.1	472.4	482.1	487.7
35°	446.1	448.9	458.6	471.1	478.0
37.5°	429.5	433.6	444.7	458.6	466.9
40°	412.9	417.0	429.5	444.7	457.2
42.5°	393.5	399.0	412.9	433.6	447.5
45°	374.1	381.0	397.6	422.6	437.8
47.5°	353.3	360.2	379.6	411.5	428.1
50°	332.5	340.8	364.4	399.0	417.0
52.5°	310.3	318.7	349.1	386.5	405.9
55°	286.8	299.3	333.9	372.7	392.1
57.5°	263.2	277.1	315.9	357.4	378.2
60°	238.3	254.9	299.3	340.8	361.6
62.5°	214.7	232.8	281.2	322.8	343.6
65°	189.8	210.6	261.8	303.4	322.8
67.5°	163.5	189.8	239.7	279.9	299.3
70°	137.2	167.6	217.5	254.9	272.9
72.5°	113.6	145.5	192.6	224.4	224.4
75°	90.1	121.9	164.9	167.6	163.5
77.5°	69.3	99.8	128.8	117.8	120.5
80°	51.3	76.2	81.7	85.9	88.7
82.5°	34.6	51.3	52.6	55.4	55.4
85°	22.2	26.3	27.7	26.3	24.9
87.5°	9.7	11.1	8.3	5.5	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)