

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: P260292

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260292
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-LD5-24-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

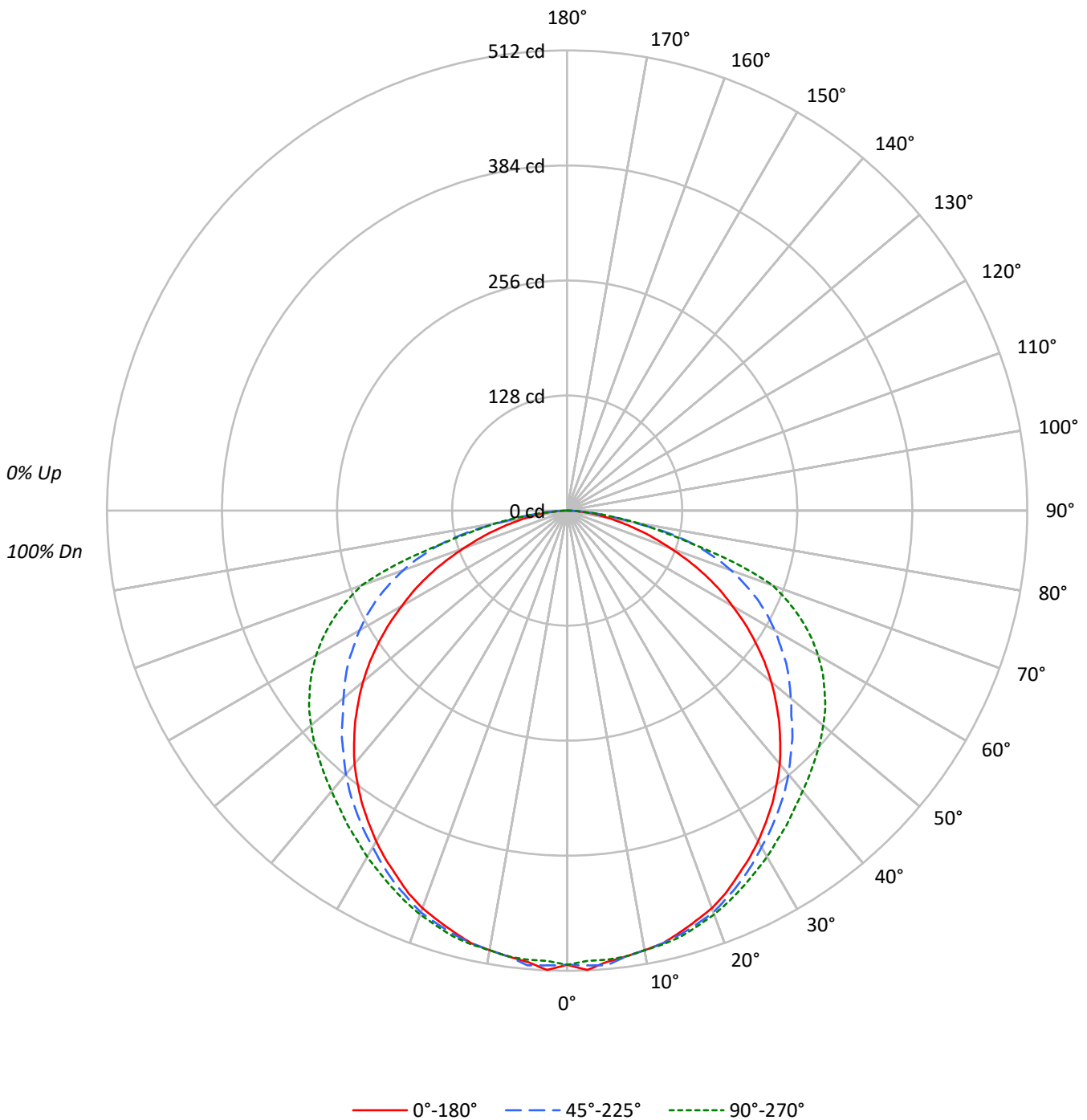
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1360	1360	1360
5°	1362	1372	1355
10°	1357	1357	1357
15°	1353	1360	1366
20°	1348	1362	1369
25°	1332	1354	1372
30°	1321	1344	1382
35°	1307	1344	1400
40°	1293	1345	1432
45°	1270	1349	1486
50°	1241	1361	1557
55°	1200	1397	1641
60°	1144	1436	1736
65°	1078	1487	1833
70°	962	1526	1915
75°	835	1528	1516
80°	708	1130	1226
85°	611	763	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	3.0
10°-20°	137.8	8.7
20°-30°	210.0	13.2
30°-40°	256.9	16.1
40°-50°	276.4	17.4
50°-60°	267.8	16.8
60°-70°	226.8	14.3
70°-80°	137.1	8.6
80°-90°	30.1	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°	395.8	24.9
0°-40°	652.7	41.0
0°-60°	1196.9	75.2
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	504	504	508	505	502	48
15°	486	487	488	489	490	137
25°	448	451	456	460	462	207
35°	398	400	409	420	426	249
45°	334	340	355	377	390	257
55°	256	267	298	332	350	228
65°	169	188	234	271	288	167
75°	80	109	147	150	146	86
85°	20	24	25	24	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	505.3	505.3	505.3	505.3	505.3
2.5°	511.5	510.3	506.6	504.1	501.6
5°	504.1	504.1	507.8	505.3	501.6
7.5°	500.4	500.4	500.4	506.6	500.4
10°	496.7	497.9	496.7	501.6	496.7
12.5°	493.0	493.0	493.0	494.2	494.2
15°	485.6	486.8	488.0	489.3	490.5
17.5°	478.2	479.4	481.9	483.1	484.3
20°	470.7	472.0	475.7	475.7	478.2
22.5°	460.9	460.9	465.8	467.0	470.7
25°	448.5	451.0	455.9	459.6	462.1
27.5°	437.4	439.9	444.8	449.7	453.5
30°	425.0	427.5	432.4	439.9	444.8
32.5°	411.4	413.9	421.3	430.0	434.9
35°	397.9	400.3	409.0	420.1	426.3
37.5°	383.0	386.7	396.6	409.0	416.4
40°	368.2	371.9	383.0	396.6	407.7
42.5°	350.9	355.8	368.2	386.7	399.1
45°	333.6	339.8	354.6	376.8	390.4
47.5°	315.1	321.2	338.5	367.0	381.8
50°	296.5	303.9	325.0	355.8	371.9
52.5°	276.8	284.2	311.4	344.7	362.0
55°	255.8	266.9	297.8	332.4	349.7
57.5°	234.8	247.1	281.7	318.8	337.3
60°	212.5	227.3	266.9	303.9	322.5
62.5°	191.5	207.6	250.8	287.9	306.4
65°	169.3	187.8	233.5	270.6	287.9
67.5°	145.8	169.3	213.8	249.6	266.9
70°	122.3	149.5	194.0	227.3	243.4
72.5°	101.3	129.7	171.7	200.2	200.2
75°	80.3	108.7	147.0	149.5	145.8
77.5°	61.8	89.0	114.9	105.0	107.5
80°	45.7	68.0	72.9	76.6	79.1
82.5°	30.9	45.7	47.0	49.4	49.4
85°	19.8	23.5	24.7	23.5	22.2
87.5°	8.6	9.9	7.4	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)