

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: P260368

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260368
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-LD5-39-SQP-UNV-L92765-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: 2109.0 lumens
Efficiency: N/A
Efficacy: 69.8 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

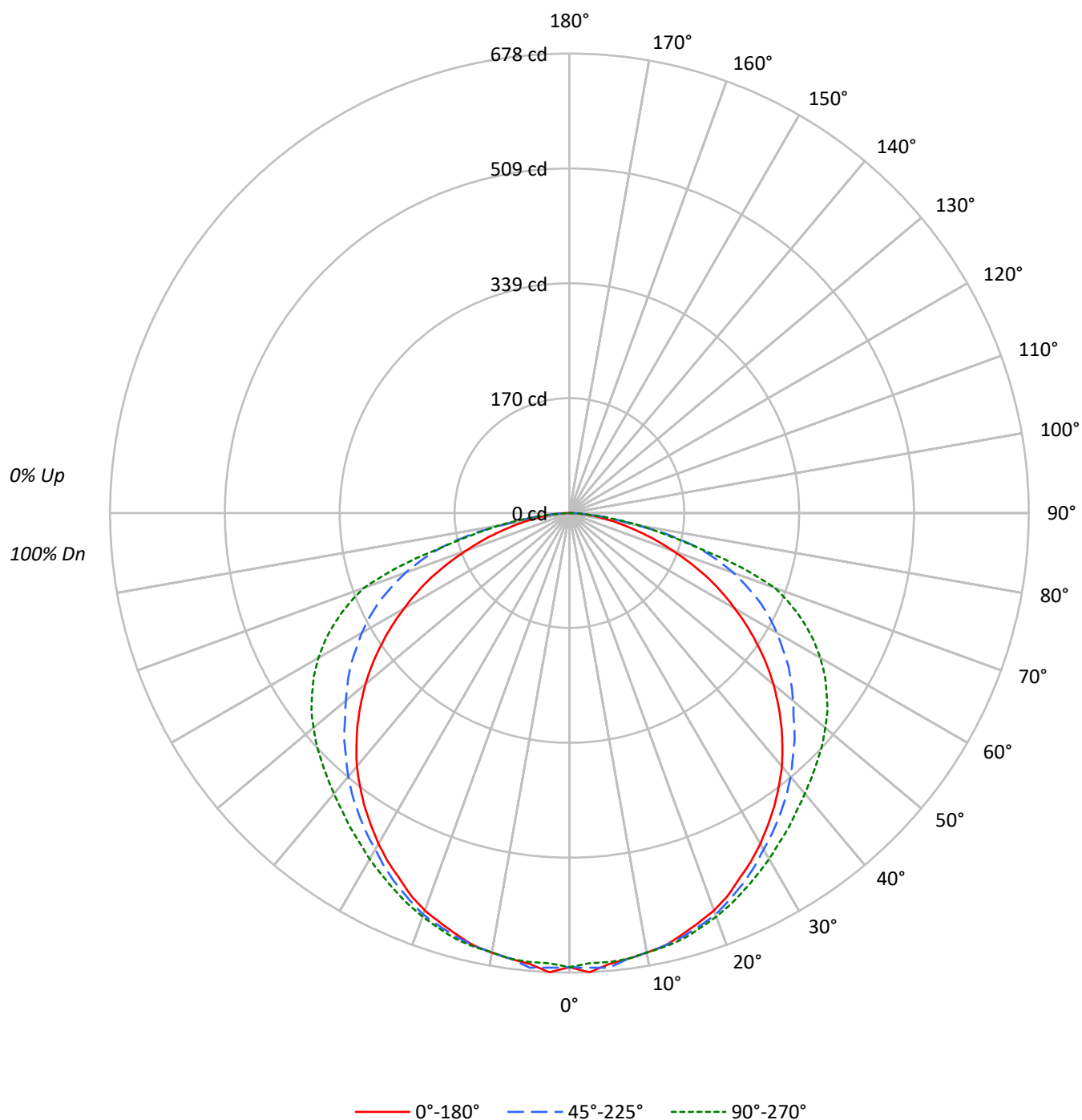
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1803	1803	1803
5°	1805	1818	1796
10°	1799	1799	1799
15°	1793	1802	1811
20°	1787	1806	1815
25°	1765	1795	1819
30°	1751	1781	1832
35°	1733	1781	1856
40°	1715	1783	1899
45°	1683	1789	1970
50°	1646	1804	2064
55°	1590	1852	2175
60°	1516	1904	2301
65°	1429	1971	2430
70°	1275	2023	2539
75°	1107	2026	2010
80°	939	1497	1624
85°	809	1013	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	182.7	8.7
20°-30°	278.4	13.2
30°-40°	340.6	16.1
40°-50°	366.4	17.4
50°-60°	355.0	16.8
60°-70°	300.7	14.3
70°-80°	181.8	8.6
80°-90°	39.9	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°	524.6	24.9
0°-40°	865.2	41.0
0°-60°	1586.6	75.2
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	668	668	673	670	665	64
15°	644	645	647	649	650	182
25°	594	598	604	609	613	274
35°	527	531	542	557	565	330
45°	442	450	470	500	518	341
55°	339	354	395	441	464	303
65°	224	249	310	359	382	221
75°	106	144	195	198	193	114
85°	26	31	33	31	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.9	669.9	669.9	669.9	669.9
2.5°	678.1	676.4	671.5	668.2	665.0
5°	668.2	668.2	673.2	669.9	665.0
7.5°	663.3	663.3	663.3	671.5	663.3
10°	658.4	660.0	658.4	665.0	658.4
12.5°	653.5	653.5	653.5	655.1	655.1
15°	643.7	645.3	646.9	648.6	650.2
17.5°	633.8	635.5	638.8	640.4	642.0
20°	624.0	625.7	630.6	630.6	633.8
22.5°	610.9	610.9	617.5	619.1	624.0
25°	594.5	597.8	604.4	609.3	612.6
27.5°	579.8	583.1	589.6	596.2	601.1
30°	563.4	566.7	573.2	583.1	589.6
32.5°	545.4	548.7	558.5	570.0	576.5
35°	527.4	530.7	542.1	556.9	565.1
37.5°	507.7	512.6	525.7	542.1	552.0
40°	488.1	493.0	507.7	525.7	540.5
42.5°	465.1	471.7	488.1	512.6	529.0
45°	442.2	450.4	470.1	499.5	517.6
47.5°	417.6	425.8	448.8	486.4	506.1
50°	393.1	402.9	430.8	471.7	493.0
52.5°	366.9	376.7	412.7	457.0	479.9
55°	339.0	353.8	394.7	440.6	463.5
57.5°	311.2	327.6	373.4	422.6	447.1
60°	281.7	301.4	353.8	402.9	427.5
62.5°	253.9	275.2	332.5	381.6	406.2
65°	224.4	249.0	309.6	358.7	381.6
67.5°	193.3	224.4	283.3	330.8	353.8
70°	162.1	198.2	257.1	301.4	322.7
72.5°	134.3	172.0	227.7	265.3	265.3
75°	106.5	144.1	194.9	198.2	193.3
77.5°	81.9	117.9	152.3	139.2	142.5
80°	60.6	90.1	96.6	101.5	104.8
82.5°	40.9	60.6	62.2	65.5	65.5
85°	26.2	31.1	32.8	31.1	29.5
87.5°	11.5	13.1	9.8	6.6	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)