

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: P260373

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260373
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2324.0 lumens
Efficiency: N/A
Efficacy: 74.8 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

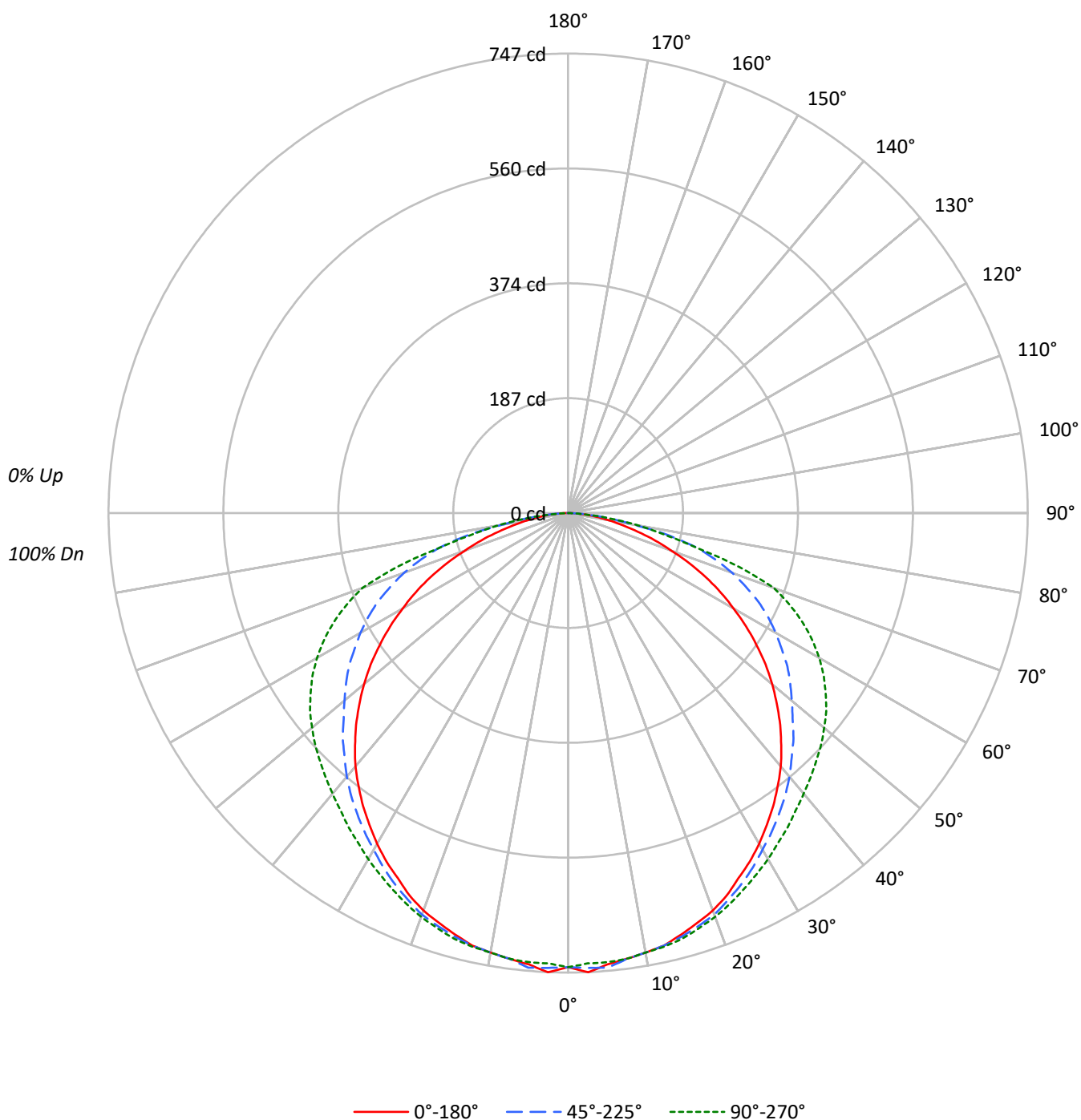
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1986	1986	1986
5°	1989	2004	1979
10°	1982	1982	1982
15°	1976	1986	1996
20°	1969	1990	2000
25°	1945	1977	2004
30°	1929	1963	2019
35°	1909	1963	2046
40°	1889	1965	2092
45°	1854	1971	2170
50°	1814	1987	2274
55°	1753	2041	2396
60°	1671	2098	2535
65°	1575	2172	2677
70°	1406	2230	2797
75°	1220	2233	2215
80°	1035	1650	1790
85°	892	1115	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.0
10°-20°	201.3	8.7
20°-30°	306.7	13.2
30°-40°	375.3	16.1
40°-50°	403.8	17.4
50°-60°	391.2	16.8
60°-70°	331.4	14.3
70°-80°	200.3	8.6
80°-90°	44.0	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°	578.1	24.9
0°-40°	953.4	41.0
0°-60°	1748.3	75.2
0°-90°	2324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	736	736	742	738	733	70
15°	709	711	713	715	716	200
25°	655	659	666	671	675	302
35°	581	585	597	614	623	363
45°	487	496	518	550	570	376
55°	374	390	435	486	511	334
65°	247	274	341	395	420	243
75°	117	159	215	218	213	126
85°	29	34	36	34	32	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.2	738.2	738.2	738.2	738.2
2.5°	747.2	745.4	740.0	736.4	732.8
5°	736.4	736.4	741.8	738.2	732.8
7.5°	730.9	730.9	730.9	740.0	730.9
10°	725.5	727.3	725.5	732.8	725.5
12.5°	720.1	720.1	720.1	721.9	721.9
15°	709.3	711.1	712.9	714.7	716.5
17.5°	698.5	700.3	703.9	705.7	707.5
20°	687.6	689.4	694.8	694.8	698.5
22.5°	673.2	673.2	680.4	682.2	687.6
25°	655.1	658.8	666.0	671.4	675.0
27.5°	638.9	642.5	649.7	656.9	662.4
30°	620.9	624.5	631.7	642.5	649.7
32.5°	601.0	604.6	615.4	628.1	635.3
35°	581.1	584.8	597.4	613.6	622.7
37.5°	559.5	564.9	579.3	597.4	608.2
40°	537.8	543.2	559.5	579.3	595.6
42.5°	512.6	519.8	537.8	564.9	583.0
45°	487.3	496.3	518.0	550.5	570.3
47.5°	460.2	469.2	494.5	536.0	557.7
50°	433.2	444.0	474.7	519.8	543.2
52.5°	404.3	415.1	454.8	503.5	528.8
55°	373.6	389.8	435.0	485.5	510.8
57.5°	342.9	361.0	411.5	465.6	492.7
60°	310.4	332.1	389.8	444.0	471.1
62.5°	279.7	303.2	366.4	420.5	447.6
65°	247.3	274.3	341.1	395.3	420.5
67.5°	213.0	247.3	312.2	364.6	389.8
70°	178.7	218.4	283.4	332.1	355.5
72.5°	148.0	189.5	250.9	292.4	292.4
75°	117.3	158.8	214.8	218.4	213.0
77.5°	90.2	129.9	167.8	153.4	157.0
80°	66.8	99.3	106.5	111.9	115.5
82.5°	45.1	66.8	68.6	72.2	72.2
85°	28.9	34.3	36.1	34.3	32.5
87.5°	12.6	14.4	10.8	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)