

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: P260268

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260268
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-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

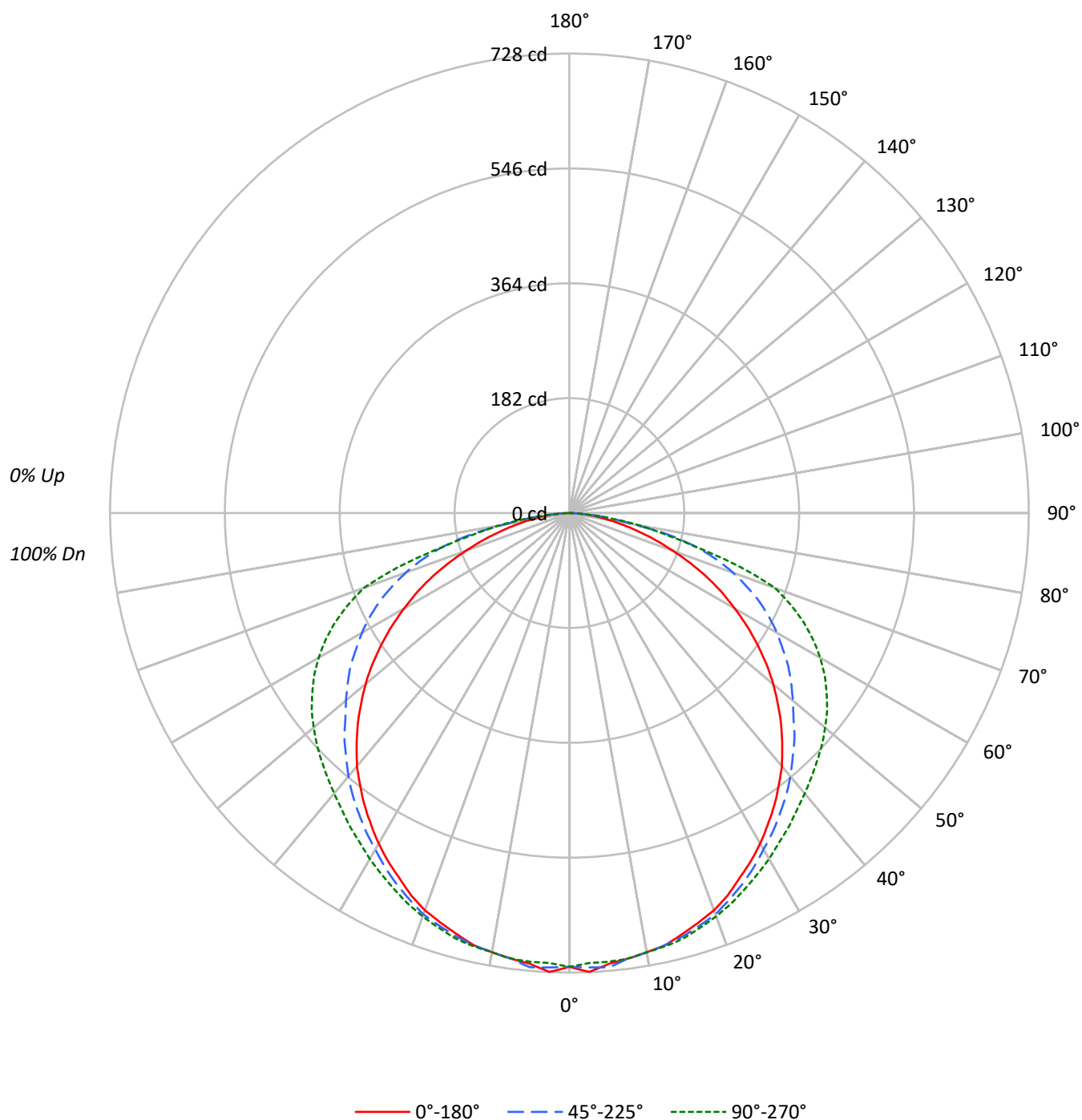
Input Watts (W): 30.915432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260268

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P260268

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4000K

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	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°	1934	1934	1934
5°	1937	1951	1927
10°	1931	1931	1931
15°	1924	1934	1944
20°	1918	1938	1948
25°	1894	1926	1952
30°	1879	1911	1966
35°	1859	1911	1992
40°	1840	1914	2037
45°	1806	1920	2113
50°	1766	1935	2215
55°	1707	1987	2334
60°	1627	2043	2469
65°	1533	2115	2607
70°	1369	2171	2724
75°	1187	2174	2156
80°	1007	1607	1743
85°	868	1084	976



TEST NUMBER: P260268

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.0
10°-20°	196.0	8.7
20°-30°	298.7	13.2
30°-40°	365.4	16.1
40°-50°	393.2	17.4
50°-60°	380.9	16.8
60°-70°	322.7	14.3
70°-80°	195.0	8.6
80°-90°	42.9	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°	562.9	24.9
0°-40°	928.4	41.0
0°-60°	1702.4	75.2
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	717	717	722	719	714	68
15°	691	692	694	696	698	195
25°	638	642	648	654	657	294
35°	566	569	582	598	606	354
45°	474	483	504	536	555	366
55°	364	380	424	473	497	325
65°	241	267	332	385	410	237
75°	114	155	209	213	207	123
85°	28	33	35	33	32	32
90°	0	0	0	0	0	



TEST NUMBER: P260268

CATALOG NUMBER: 22CZ-LD5-39-SQP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.8	718.8	718.8	718.8	718.8
2.5°	727.6	725.8	720.5	717.0	713.5
5°	717.0	717.0	722.3	718.8	713.5
7.5°	711.8	711.8	711.8	720.5	711.8
10°	706.5	708.2	706.5	713.5	706.5
12.5°	701.2	701.2	701.2	703.0	703.0
15°	690.7	692.4	694.2	695.9	697.7
17.5°	680.1	681.9	685.4	687.2	688.9
20°	669.6	671.3	676.6	676.6	680.1
22.5°	655.5	655.5	662.6	664.3	669.6
25°	637.9	641.5	648.5	653.8	657.3
27.5°	622.1	625.6	632.7	639.7	645.0
30°	604.6	608.1	615.1	625.6	632.7
32.5°	585.2	588.7	599.3	611.6	618.6
35°	565.9	569.4	581.7	597.5	606.3
37.5°	544.8	550.1	564.1	581.7	592.3
40°	523.7	529.0	544.8	564.1	580.0
42.5°	499.1	506.1	523.7	550.1	567.7
45°	474.5	483.3	504.4	536.0	555.3
47.5°	448.1	456.9	481.5	522.0	543.0
50°	421.8	432.3	462.2	506.1	529.0
52.5°	393.7	404.2	442.9	490.3	514.9
55°	363.8	379.6	423.5	472.7	497.4
57.5°	333.9	351.5	400.7	453.4	479.8
60°	302.3	323.4	379.6	432.3	458.7
62.5°	272.4	295.2	356.8	409.5	435.8
65°	240.8	267.1	332.2	384.9	409.5
67.5°	207.4	240.8	304.0	355.0	379.6
70°	174.0	212.6	275.9	323.4	346.2
72.5°	144.1	184.5	244.3	284.7	284.7
75°	114.2	154.7	209.1	212.6	207.4
77.5°	87.9	126.5	163.4	149.4	152.9
80°	65.0	96.7	103.7	109.0	112.5
82.5°	43.9	65.0	66.8	70.3	70.3
85°	28.1	33.4	35.1	33.4	31.6
87.5°	12.3	14.1	10.5	7.0	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)