

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: P260313

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260313
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 77.7 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

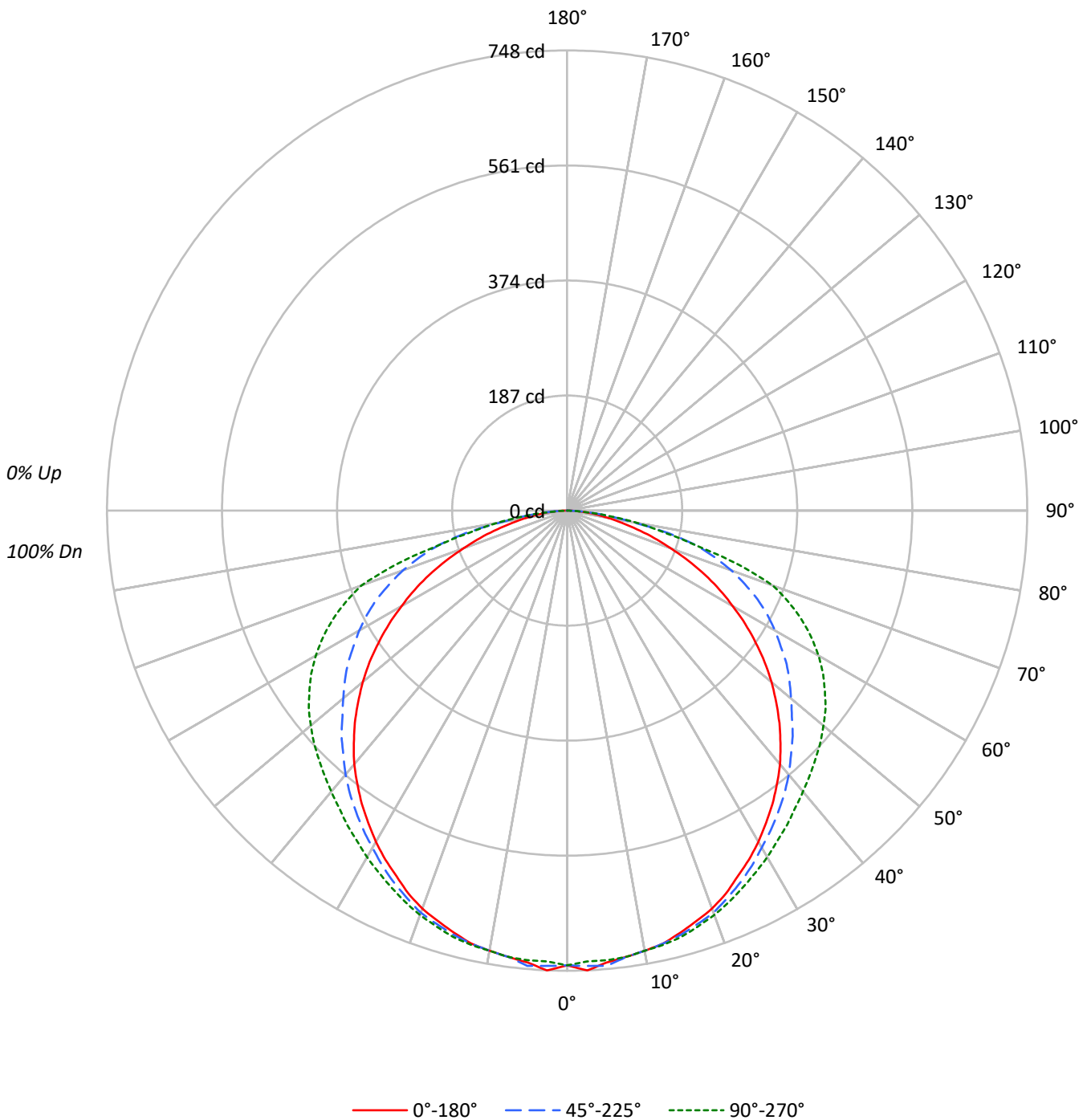
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1989	1989	1989
5°	1992	2006	1982
10°	1985	1985	1985
15°	1979	1989	1999
20°	1972	1992	2003
25°	1948	1980	2007
30°	1932	1965	2022
35°	1912	1965	2048
40°	1892	1968	2095
45°	1857	1974	2173
50°	1816	1990	2277
55°	1755	2043	2399
60°	1673	2101	2539
65°	1577	2174	2681
70°	1408	2232	2801
75°	1222	2235	2217
80°	1037	1652	1793
85°	892	1115	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.0
10°-20°	201.5	8.7
20°-30°	307.1	13.2
30°-40°	375.8	16.1
40°-50°	404.3	17.4
50°-60°	391.7	16.8
60°-70°	331.8	14.3
70°-80°	200.6	8.6
80°-90°	44.1	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°	578.8	24.9
0°-40°	954.6	41.0
0°-60°	1750.6	75.2
0°-90°	2327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	737	737	743	739	734	70
15°	710	712	714	716	717	201
25°	656	660	667	672	676	303
35°	582	586	598	614	624	364
45°	488	497	519	551	571	376
55°	374	390	436	486	511	334
65°	248	275	342	396	421	244
75°	118	159	215	219	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°	739.1	739.1	739.1	739.1	739.1
2.5°	748.2	746.3	740.9	737.3	733.7
5°	737.3	737.3	742.7	739.1	733.7
7.5°	731.9	731.9	731.9	740.9	731.9
10°	726.5	728.3	726.5	733.7	726.5
12.5°	721.0	721.0	721.0	722.9	722.9
15°	710.2	712.0	713.8	715.6	717.4
17.5°	699.4	701.2	704.8	706.6	708.4
20°	688.5	690.3	695.7	695.7	699.4
22.5°	674.1	674.1	681.3	683.1	688.5
25°	656.0	659.6	666.8	672.3	675.9
27.5°	639.7	643.3	650.6	657.8	663.2
30°	621.7	625.3	632.5	643.3	650.6
32.5°	601.8	605.4	616.2	628.9	636.1
35°	581.9	585.5	598.2	614.4	623.5
37.5°	560.2	565.6	580.1	598.2	609.0
40°	538.5	543.9	560.2	580.1	596.4
42.5°	513.2	520.5	538.5	565.6	583.7
45°	487.9	497.0	518.6	551.2	571.1
47.5°	460.8	469.9	495.2	536.7	558.4
50°	433.7	444.6	475.3	520.5	543.9
52.5°	404.8	415.6	455.4	504.2	529.5
55°	374.1	390.3	435.5	486.1	511.4
57.5°	343.4	361.4	412.0	466.2	493.3
60°	310.8	332.5	390.3	444.6	471.7
62.5°	280.1	303.6	366.8	421.1	448.2
65°	247.6	274.7	341.5	395.8	421.1
67.5°	213.2	247.6	312.6	365.0	390.3
70°	178.9	218.7	283.7	332.5	356.0
72.5°	148.2	189.7	251.2	292.8	292.8
75°	117.5	159.0	215.0	218.7	213.2
77.5°	90.4	130.1	168.1	153.6	157.2
80°	66.9	99.4	106.6	112.0	115.7
82.5°	45.2	66.9	68.7	72.3	72.3
85°	28.9	34.3	36.1	34.3	32.5
87.5°	12.6	14.5	10.8	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)