

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: P260272

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260272
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-LD5-44-SQP-UNV-L93050-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: 2351.0 lumens
Efficiency: N/A
Efficacy: 66.7 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

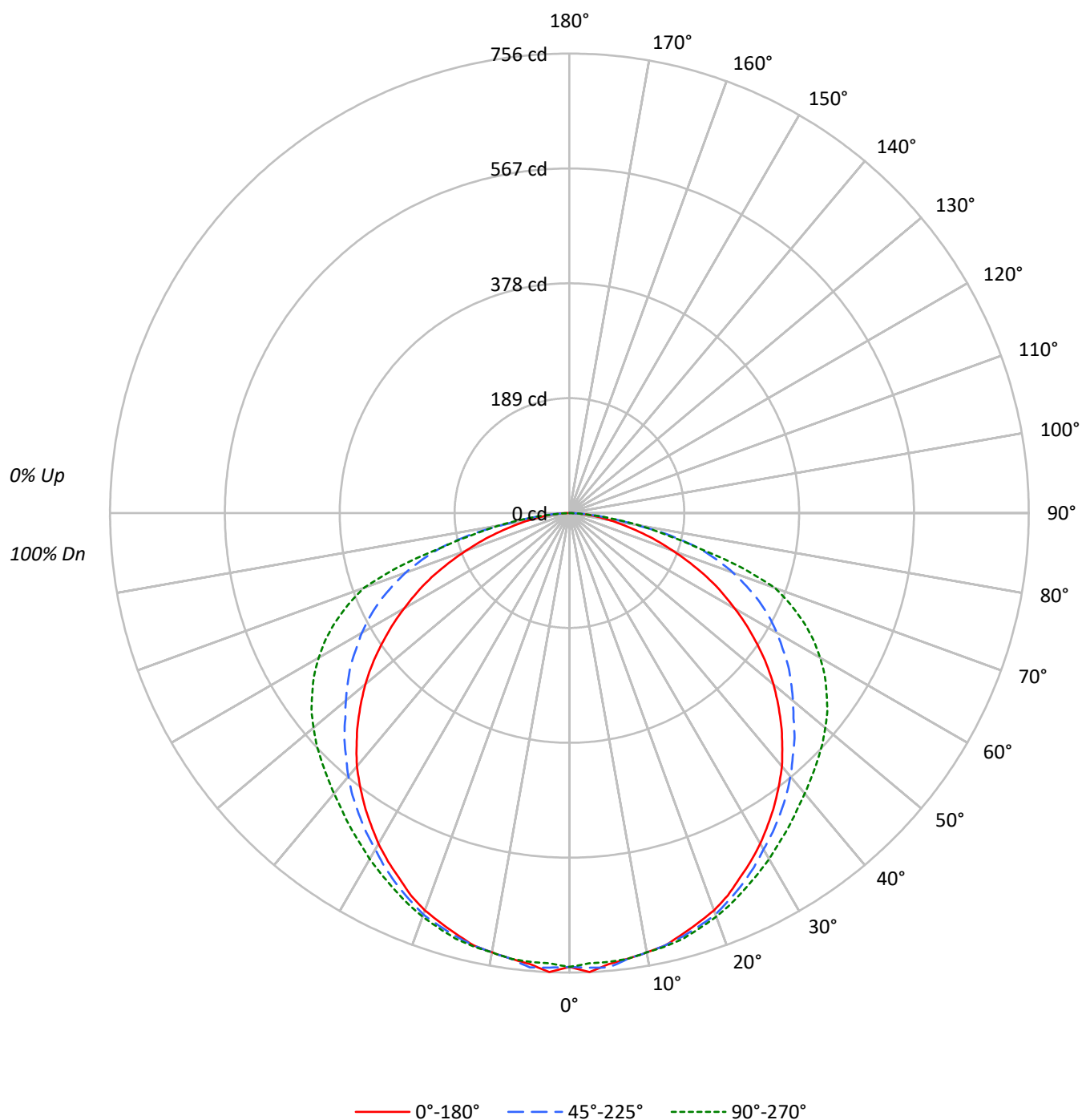
Input Watts (W): 35.253324
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2009	2009	2009
5°	2012	2027	2002
10°	2006	2006	2006
15°	1999	2009	2019
20°	1992	2013	2023
25°	1968	2000	2027
30°	1952	1986	2042
35°	1931	1985	2069
40°	1911	1988	2116
45°	1876	1994	2195
50°	1834	2010	2301
55°	1773	2064	2424
60°	1690	2123	2565
65°	1592	2197	2709
70°	1423	2255	2830
75°	1234	2259	2240
80°	1048	1669	1810
85°	902	1127	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.0
10°-20°	203.6	8.7
20°-30°	310.3	13.2
30°-40°	379.7	16.1
40°-50°	408.5	17.4
50°-60°	395.7	16.8
60°-70°	335.2	14.3
70°-80°	202.6	8.6
80°-90°	44.5	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°	584.8	24.9
0°-40°	964.5	41.0
0°-60°	1768.7	75.2
0°-90°	2351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	745	745	750	747	741	71
15°	718	719	721	723	725	203
25°	663	666	674	679	683	306
35°	588	592	604	621	630	368
45°	493	502	524	557	577	380
55°	378	394	440	491	517	338
65°	250	278	345	400	425	246
75°	119	161	217	221	215	128
85°	29	35	36	35	33	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.7	746.7	746.7	746.7	746.7
2.5°	755.9	754.0	748.6	744.9	741.3
5°	744.9	744.9	750.4	746.7	741.3
7.5°	739.4	739.4	739.4	748.6	739.4
10°	734.0	735.8	734.0	741.3	734.0
12.5°	728.5	728.5	728.5	730.3	730.3
15°	717.5	719.4	721.2	723.0	724.8
17.5°	706.6	708.4	712.1	713.9	715.7
20°	695.6	697.4	702.9	702.9	706.6
22.5°	681.0	681.0	688.3	690.1	695.6
25°	662.8	666.4	673.7	679.2	682.8
27.5°	646.3	650.0	657.3	664.6	670.1
30°	628.1	631.7	639.0	650.0	657.3
32.5°	608.0	611.6	622.6	635.4	642.7
35°	587.9	591.6	604.3	620.8	629.9
37.5°	566.0	571.5	586.1	604.3	615.3
40°	544.1	549.6	566.0	586.1	602.5
42.5°	518.5	525.8	544.1	571.5	589.7
45°	493.0	502.1	524.0	556.9	576.9
47.5°	465.6	474.7	500.3	542.3	564.2
50°	438.2	449.1	480.2	525.8	549.6
52.5°	409.0	419.9	460.1	509.4	535.0
55°	377.9	394.4	440.0	491.1	516.7
57.5°	346.9	365.2	416.3	471.0	498.4
60°	314.0	335.9	394.4	449.1	476.5
62.5°	283.0	306.7	370.6	425.4	452.8
65°	250.1	277.5	345.1	399.8	425.4
67.5°	215.4	250.1	315.9	368.8	394.4
70°	180.8	220.9	286.6	335.9	359.7
72.5°	149.7	191.7	253.8	295.8	295.8
75°	118.7	160.7	217.3	220.9	215.4
77.5°	91.3	131.5	169.8	155.2	158.8
80°	67.6	100.4	107.7	113.2	116.8
82.5°	45.6	67.6	69.4	73.0	73.0
85°	29.2	34.7	36.5	34.7	32.9
87.5°	12.8	14.6	11.0	7.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)