

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: P259242

Luminaire Tested: **22CZ-LD5-20-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2017.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

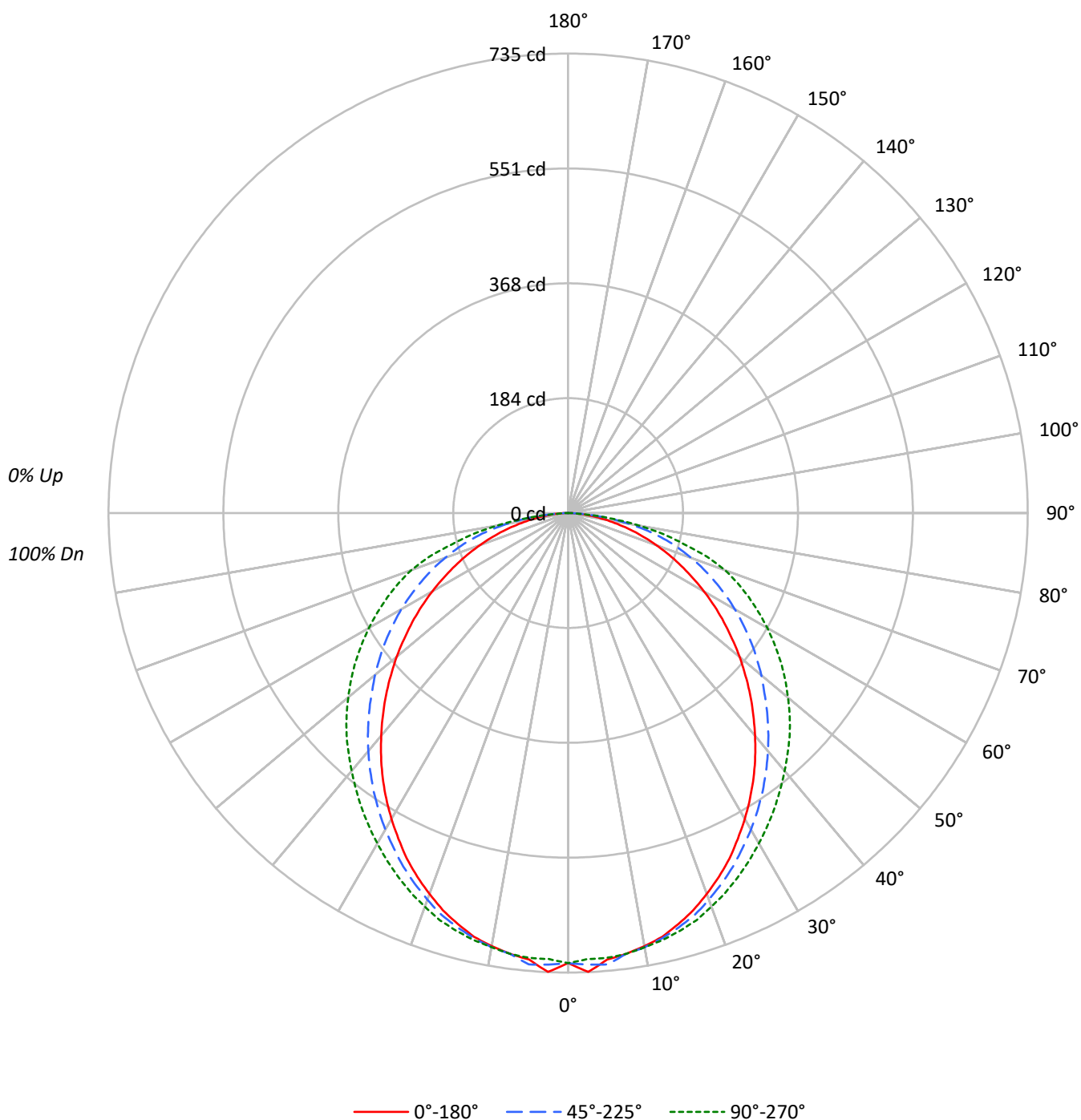
Input Watts (W): 16.183302
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1937	1937	1937
5°	1937	1958	1929
10°	1922	1927	1927
15°	1896	1910	1926
20°	1857	1885	1918
25°	1811	1852	1907
30°	1756	1817	1896
35°	1698	1782	1892
40°	1633	1747	1892
45°	1568	1713	1907
50°	1499	1688	1922
55°	1427	1670	1947
60°	1351	1658	1979
65°	1268	1649	2030
70°	1181	1644	2099
75°	1071	1642	1989
80°	927	1520	1764
85°	787	1152	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.4
10°-20°	193.4	9.6
20°-30°	287.7	14.3
30°-40°	340.3	16.9
40°-50°	349.8	17.3
50°-60°	319.6	15.8
60°-70°	255.7	12.7
70°-80°	160.5	8.0
80°-90°	41.8	2.1
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°	549.4	27.2
0°-40°	889.7	44.1
0°-60°	1559.1	77.3
0°-90°	2017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	717	717	725	720	714	68
15°	681	682	686	690	692	192
25°	610	614	624	635	642	281
35°	517	524	542	563	576	323
45°	412	423	450	484	501	318
55°	304	319	356	395	415	272
65°	199	217	259	298	319	198
75°	103	123	158	182	191	109
85°	26	32	37	36	36	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.9	719.9	719.9	719.9	719.9
2.5°	734.6	731.7	722.9	717.0	714.1
5°	717.0	717.0	724.8	719.9	714.1
7.5°	711.1	711.1	711.1	725.8	711.1
10°	703.3	704.2	705.2	711.1	705.2
12.5°	694.4	694.4	696.4	698.4	699.3
15°	680.7	681.7	685.6	689.5	691.5
17.5°	666.0	668.9	673.8	678.7	682.7
20°	648.3	652.3	658.1	666.0	669.9
22.5°	629.7	633.6	641.5	650.3	657.2
25°	610.1	614.0	623.8	634.6	642.4
27.5°	587.5	592.4	604.2	618.9	626.8
30°	565.0	570.8	584.6	601.3	610.1
32.5°	541.4	548.3	564.0	582.6	593.4
35°	516.9	523.8	542.4	563.0	575.8
37.5°	491.4	499.2	519.8	543.4	557.1
40°	464.9	473.7	497.3	522.8	538.5
42.5°	438.4	448.2	473.7	504.2	519.8
45°	412.0	422.7	450.2	483.6	501.2
47.5°	384.5	397.2	425.7	463.0	480.6
50°	358.0	370.8	403.1	441.4	459.0
52.5°	330.5	345.3	379.6	418.8	437.5
55°	304.1	318.8	356.0	395.3	414.9
57.5°	277.6	292.3	331.5	371.7	391.4
60°	251.1	266.8	308.0	347.2	367.8
62.5°	224.6	241.3	283.5	323.7	343.3
65°	199.1	216.8	258.9	298.2	318.8
67.5°	174.6	193.2	234.4	272.7	293.3
70°	150.1	168.7	208.9	246.2	266.8
72.5°	126.5	145.2	184.4	217.7	233.4
75°	103.0	122.6	157.9	181.5	191.3
77.5°	80.4	100.0	130.5	146.1	156.9
80°	59.8	76.5	98.1	109.9	113.8
82.5°	41.2	54.9	68.7	71.6	73.6
85°	25.5	32.4	37.3	36.3	36.3
87.5°	11.8	12.8	10.8	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)