

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: P#

Luminaire Tested: **22CZ-LD5-20SE-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-LD5-20SE-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2110.4 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

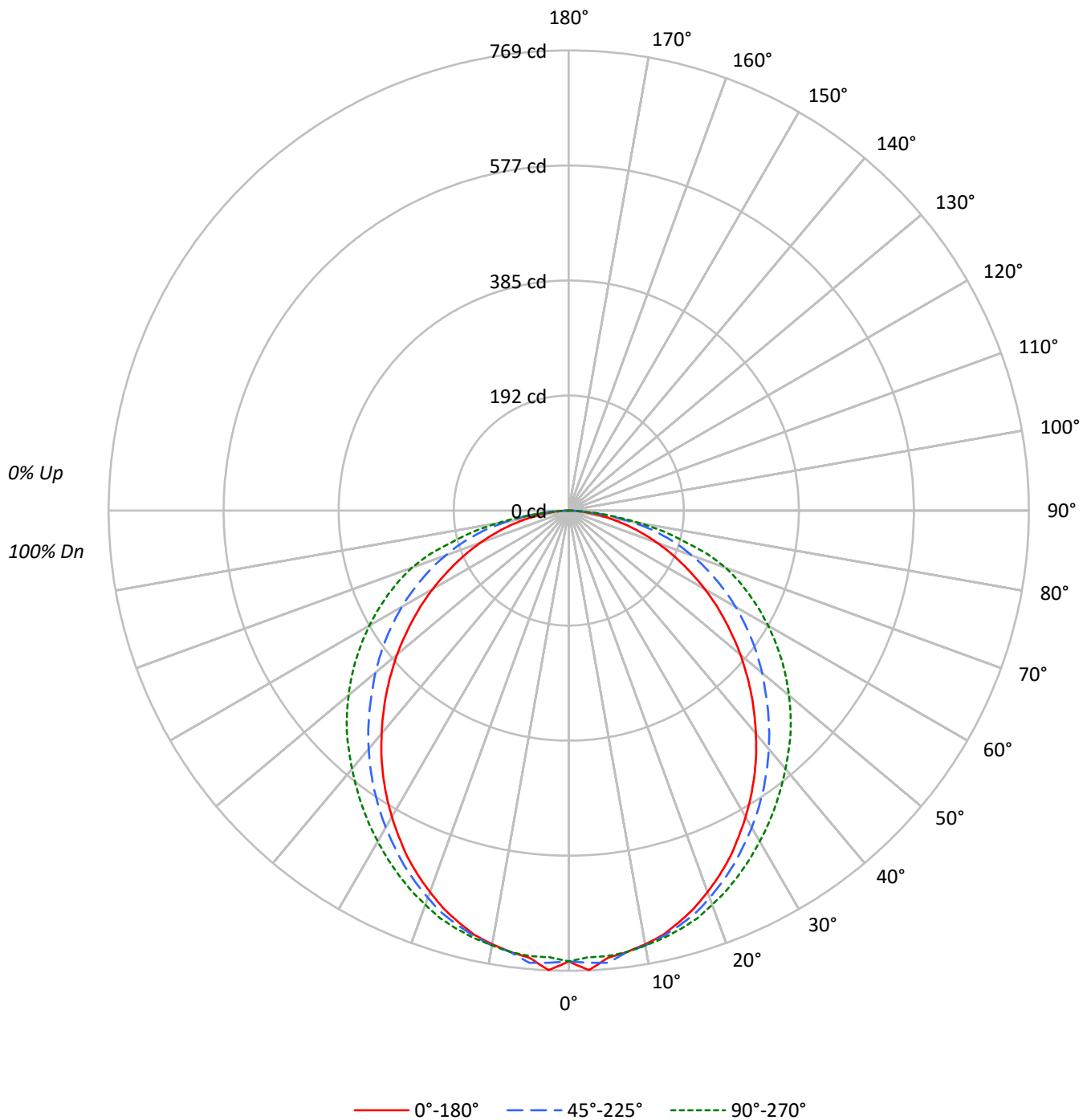
Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58		58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33		33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2027	2027	2027
5°	2018	2036	2009
10°	1993	1991	1999
15°	1958	1961	1989
20°	1908	1922	1971
25°	1852	1876	1950
30°	1785	1826	1928
35°	1716	1776	1912
40°	1640	1725	1899
45°	1562	1674	1901
50°	1480	1629	1898
55°	1393	1587	1901
60°	1301	1545	1906
65°	1198	1498	1918
70°	1086	1440	1931
75°	945	1359	1753
80°	756	1135	1437
85°	525	666	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.4
10°-20°	202.4	9.6
20°-30°	301.1	14.3
30°-40°	356.0	16.9
40°-50°	366.0	17.3
50°-60°	334.4	15.8
60°-70°	267.5	12.7
70°-80°	167.9	8.0
80°-90°	43.7	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°	574.9	27.2
0°-40°	930.9	44.1
0°-60°	1631.3	77.3
0°-90°	2110.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	750	750	758	753	747	71
15°	712	713	717	722	724	201
25°	638	642	653	664	672	293
35°	541	548	568	589	602	338
45°	431	442	471	506	524	332
55°	318	334	372	414	434	285
65°	208	227	271	312	334	207
75°	108	128	165	190	200	114
85°	27	34	39	38	38	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.3	753.3	753.3	753.3	753.3
2.5°	768.7	765.6	756.3	750.2	747.1
5°	750.2	750.2	758.4	753.3	747.1
7.5°	744.0	744.0	744.0	759.4	744.0
10°	735.8	736.8	737.9	744.0	737.9
12.5°	726.6	726.6	728.6	730.7	731.7
15°	712.2	713.2	717.3	721.5	723.5
17.5°	696.8	699.9	705.0	710.2	714.3
20°	678.3	682.5	688.6	696.8	700.9
22.5°	658.9	663.0	671.2	680.4	687.6
25°	638.3	642.4	652.7	664.0	672.2
27.5°	614.7	619.9	632.2	647.6	655.8
30°	591.1	597.3	611.6	629.1	638.3
32.5°	566.5	573.7	590.1	609.6	620.9
35°	540.8	548.0	567.5	589.1	602.4
37.5°	514.2	522.4	543.9	568.5	582.9
40°	486.4	495.7	520.3	547.0	563.4
42.5°	458.7	469.0	495.7	527.5	543.9
45°	431.0	442.3	471.0	505.9	524.4
47.5°	402.3	415.6	445.4	484.4	502.9
50°	374.6	387.9	421.8	461.8	480.3
52.5°	345.8	361.2	397.2	438.2	457.7
55°	318.1	333.5	372.5	413.6	434.1
57.5°	290.4	305.8	346.9	388.9	409.5
60°	262.7	279.1	322.2	363.3	384.8
62.5°	235.0	252.5	296.6	338.7	359.2
65°	208.3	226.8	270.9	312.0	333.5
67.5°	182.7	202.2	245.3	285.3	306.8
70°	157.0	176.5	218.6	257.6	279.1
72.5°	132.4	151.9	192.9	227.8	244.2
75°	107.8	128.3	165.2	189.9	200.1
77.5°	84.2	104.7	136.5	152.9	164.2
80°	62.6	80.0	102.6	114.9	119.0
82.5°	43.1	57.5	71.8	74.9	77.0
85°	26.7	33.9	39.0	38.0	38.0
87.5°	12.3	13.3	11.3	8.2	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)