

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-S-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20SE-S-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

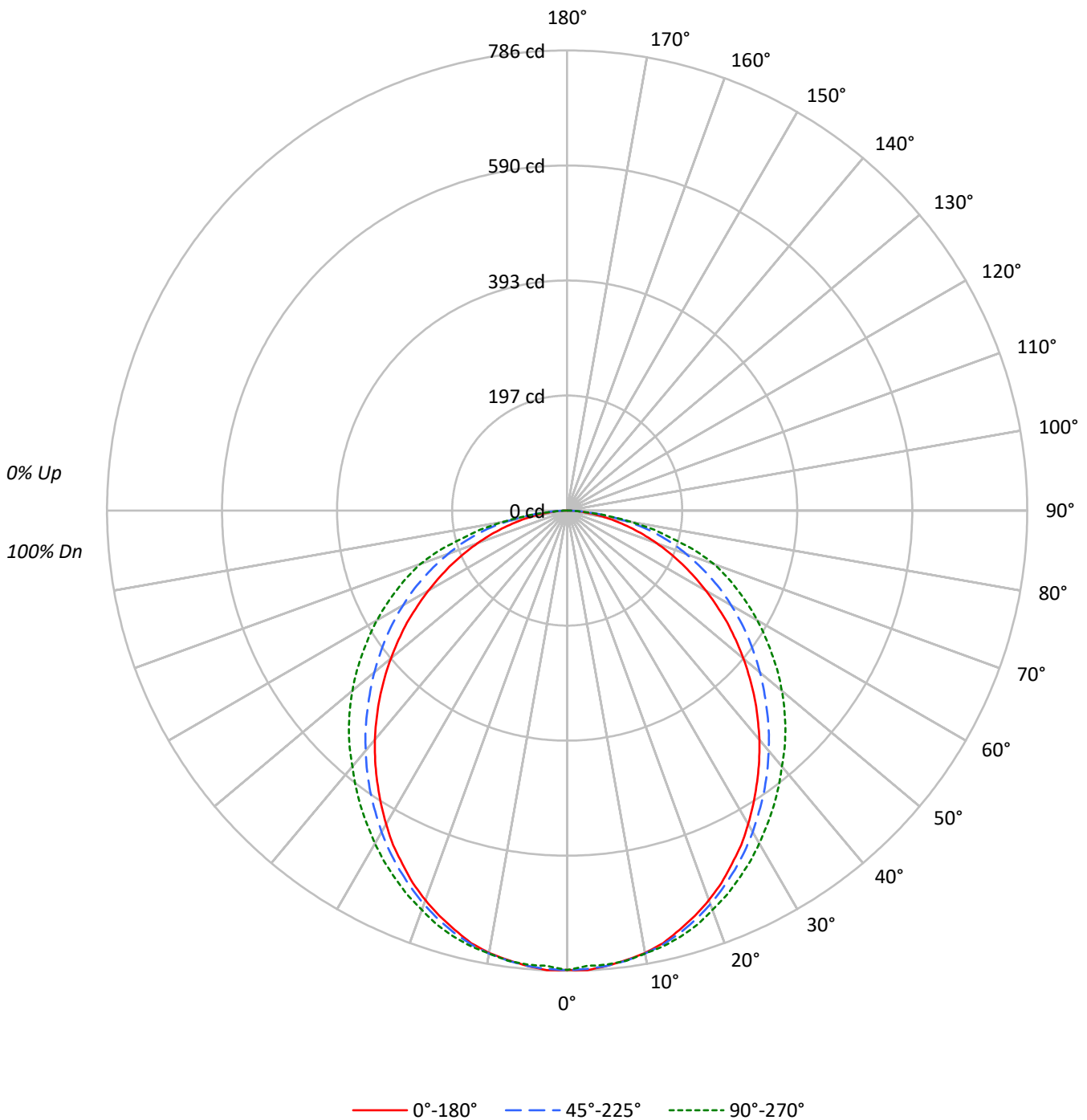
Lumens per Lamp: N/A
Luminaire Lumens: 2152.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

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				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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2112	2112	2112
5°	2099	2096	2094
10°	2078	2073	2081
15°	2038	2041	2069
20°	1992	1998	2041
25°	1932	1947	2013
30°	1867	1892	1983
35°	1795	1835	1953
40°	1722	1776	1924
45°	1641	1716	1911
50°	1552	1661	1891
55°	1463	1608	1870
60°	1357	1552	1859
65°	1248	1492	1849
70°	1123	1424	1846
75°	969	1335	1639
80°	786	1120	1323
85°	529	654	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	210.5	9.8
20°-30°	312.7	14.5
30°-40°	368.0	17.1
40°-50°	375.2	17.4
50°-60°	338.4	15.7
60°-70°	266.6	12.4
70°-80°	164.4	7.6
80°-90°	42.7	2.0
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°	597.3	27.7
0°-40°	965.3	44.8
0°-60°	1678.9	78.0
0°-90°	2152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	781	782	781	780	778	74
15°	741	744	746	751	753	209
25°	666	670	677	689	694	307
35°	566	572	586	605	615	354
45°	453	460	483	512	527	349
55°	334	345	377	412	427	298
65°	217	233	270	304	322	215
75°	111	129	162	181	187	118
85°	27	34	38	36	34	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.7	784.7	784.7	784.7	784.7
2.5°	785.8	785.8	783.7	781.6	778.5
5°	780.6	781.6	780.6	779.6	778.5
7.5°	774.4	775.4	775.4	775.4	775.4
10°	767.2	768.2	768.2	768.2	768.2
12.5°	756.8	757.9	758.9	759.9	762.0
15°	741.3	744.4	746.5	750.6	752.7
17.5°	725.8	728.9	732.0	737.2	741.3
20°	708.2	710.3	715.5	721.7	725.8
22.5°	688.6	691.7	696.9	705.1	711.3
25°	665.8	670.0	677.2	688.6	693.8
27.5°	644.1	647.2	656.5	668.9	676.2
30°	618.3	622.4	633.8	649.3	656.5
32.5°	592.4	597.6	610.0	627.6	635.9
35°	565.6	571.8	586.2	604.8	615.2
37.5°	538.7	544.9	561.4	582.1	593.5
40°	510.8	517.0	535.6	558.3	570.7
42.5°	481.8	489.0	509.7	535.6	550.0
45°	452.9	460.1	482.8	511.8	527.3
47.5°	422.9	431.1	456.0	488.0	503.5
50°	392.9	402.2	430.1	463.2	478.7
52.5°	362.9	373.2	403.2	437.3	453.9
55°	334.0	345.3	377.4	411.5	427.0
57.5°	302.9	316.4	350.5	383.6	401.2
60°	274.0	288.5	323.6	356.7	375.3
62.5°	245.0	260.5	297.8	330.9	348.4
65°	217.1	232.6	269.9	304.0	321.5
67.5°	189.2	206.8	243.0	277.1	294.7
70°	162.3	180.9	216.1	249.2	266.8
72.5°	136.5	155.1	190.2	221.3	231.6
75°	110.6	129.2	162.3	180.9	187.1
77.5°	86.8	104.4	133.4	144.7	153.0
80°	65.1	80.6	101.3	108.6	109.6
82.5°	44.5	57.9	70.3	71.3	70.3
85°	26.9	34.1	38.3	36.2	34.1
87.5°	12.4	13.4	12.4	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)