

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-L850-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-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

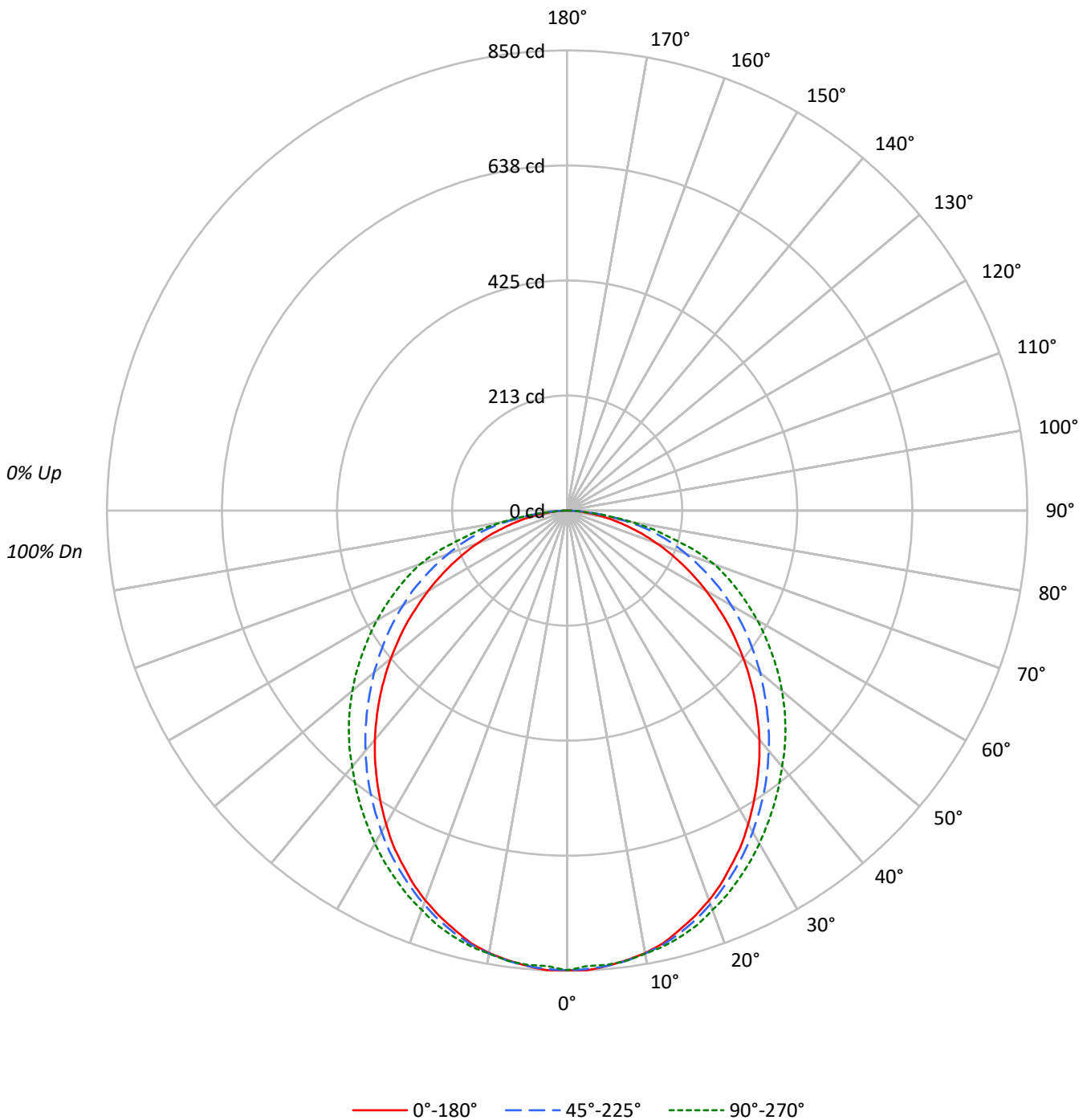
Lumens per Lamp: N/A
Luminaire Lumens: 2328.5 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 17.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	2284	2284	2284
5°	2271	2267	2265
10°	2248	2243	2251
15°	2204	2208	2238
20°	2155	2161	2208
25°	2090	2106	2177
30°	2020	2047	2145
35°	1942	1985	2112
40°	1863	1921	2081
45°	1776	1856	2067
50°	1679	1797	2046
55°	1582	1739	2023
60°	1468	1679	2011
65°	1351	1614	2000
70°	1215	1540	1996
75°	1049	1445	1773
80°	851	1212	1432
85°	572	707	725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.4
10°-20°	227.7	9.8
20°-30°	338.2	14.5
30°-40°	398.1	17.1
40°-50°	405.9	17.4
50°-60°	366.0	15.7
60°-70°	288.3	12.4
70°-80°	177.9	7.6
80°-90°	46.2	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°	646.1	27.7
0°-40°	1044.2	44.8
0°-60°	1816.1	78.0
0°-90°	2328.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	844	846	844	843	842	80
15°	802	805	808	812	814	226
25°	720	725	733	745	750	332
35°	612	618	634	654	665	383
45°	490	498	522	554	570	378
55°	361	374	408	445	462	322
65°	235	252	292	329	348	233
75°	120	140	176	196	202	128
85°	29	37	41	39	37	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.9	848.9	848.9	848.9	848.9
2.5°	850.0	850.0	847.7	845.5	842.2
5°	844.4	845.5	844.4	843.3	842.2
7.5°	837.7	838.8	838.8	838.8	838.8
10°	829.9	831.0	831.0	831.0	831.0
12.5°	818.7	819.8	820.9	822.0	824.3
15°	801.9	805.2	807.5	812.0	814.2
17.5°	785.1	788.5	791.8	797.4	801.9
20°	766.1	768.3	773.9	780.6	785.1
22.5°	744.9	748.2	753.8	762.7	769.5
25°	720.3	724.7	732.6	744.9	750.4
27.5°	696.8	700.1	710.2	723.6	731.4
30°	668.8	673.3	685.6	702.4	710.2
32.5°	640.8	646.4	659.9	678.9	687.8
35°	611.8	618.5	634.1	654.3	665.4
37.5°	582.7	589.4	607.3	629.7	642.0
40°	552.5	559.2	579.3	603.9	617.4
42.5°	521.2	529.0	551.4	579.3	595.0
45°	489.9	497.7	522.3	553.6	570.4
47.5°	457.4	466.4	493.2	527.9	544.7
50°	425.0	435.1	465.3	501.0	517.8
52.5°	392.6	403.7	436.2	473.1	491.0
55°	361.2	373.5	408.2	445.1	461.9
57.5°	327.7	342.2	379.1	414.9	433.9
60°	296.4	312.0	350.1	385.8	406.0
62.5°	265.1	281.8	322.1	357.9	376.9
65°	234.9	251.6	291.9	328.8	347.8
67.5°	204.7	223.7	262.8	299.7	318.7
70°	175.6	195.7	233.7	269.5	288.5
72.5°	147.6	167.8	205.8	239.3	250.5
75°	119.7	139.8	175.6	195.7	202.4
77.5°	93.9	113.0	144.3	156.6	165.5
80°	70.5	87.2	109.6	117.4	118.6
82.5°	48.1	62.6	76.1	77.2	76.1
85°	29.1	36.9	41.4	39.1	36.9
87.5°	13.4	14.5	13.4	8.9	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)