

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-L835-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-L835-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

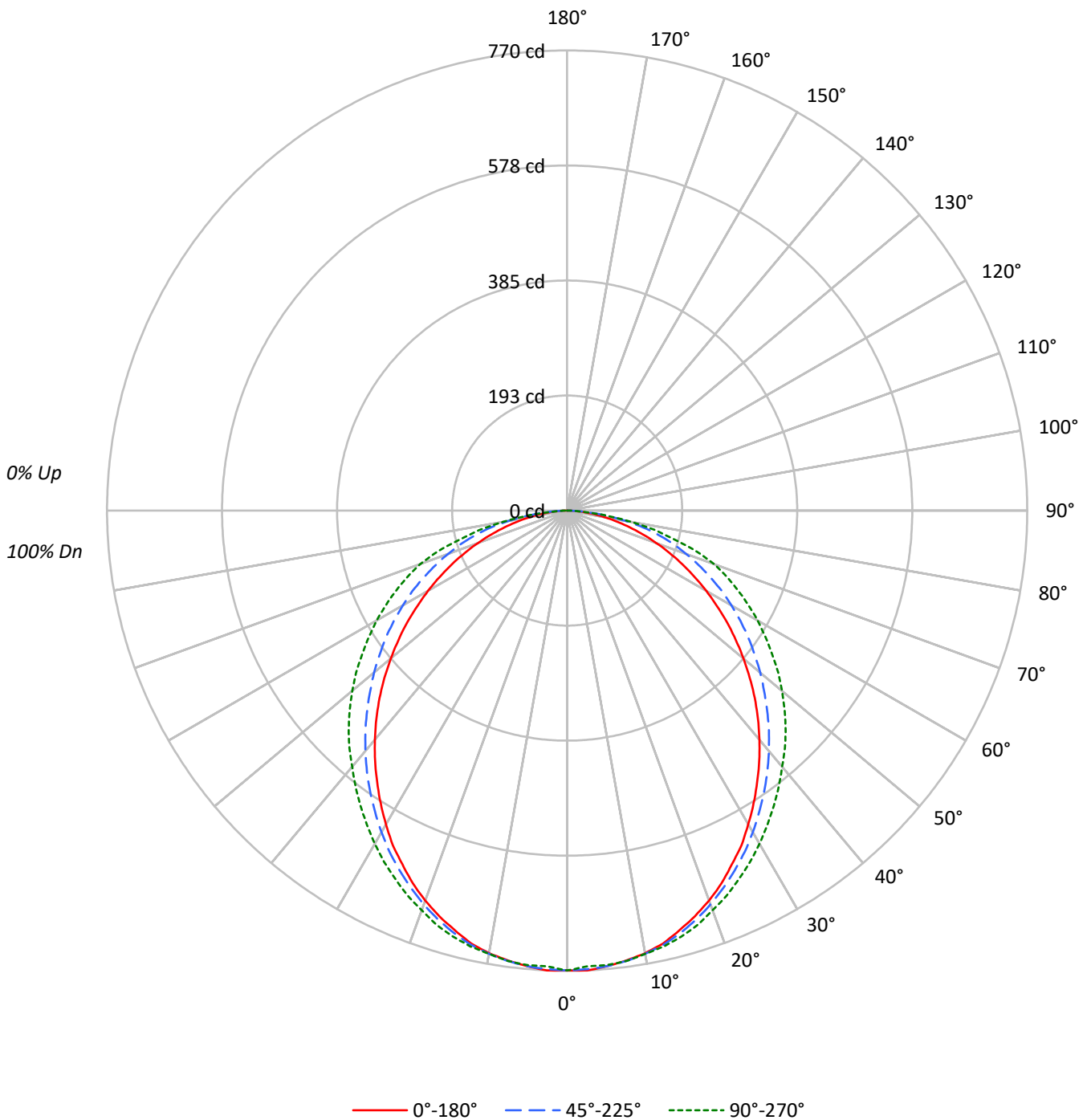
Lumens per Lamp: N/A  
Luminaire Lumens: 2110.4 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 17.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			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°	2070	2070	2070
5°	2058	2055	2053
10°	2037	2032	2040
15°	1998	2001	2029
20°	1953	1958	2001
25°	1894	1908	1974
30°	1831	1855	1944
35°	1760	1799	1914
40°	1688	1741	1886
45°	1609	1683	1874
50°	1522	1628	1854
55°	1434	1577	1833
60°	1330	1521	1823
65°	1224	1463	1813
70°	1101	1396	1809
75°	951	1309	1608
80°	771	1098	1297
85°	519	640	658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	3.4
10°-20°	206.4	9.8
20°-30°	306.5	14.5
30°-40°	360.8	17.1
40°-50°	367.9	17.4
50°-60°	331.8	15.7
60°-70°	261.3	12.4
70°-80°	161.2	7.6
80°-90°	41.9	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°	585.6	27.7
0°-40°	946.4	44.8
0°-60°	1646.0	78.0
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°	769	769	769	769	769	
5°	765	766	765	764	763	73
15°	727	730	732	736	738	205
25°	653	657	664	675	680	301
35°	554	560	575	593	603	347
45°	444	451	473	502	517	342
55°	327	339	370	403	419	292
65°	213	228	265	298	315	211
75°	108	127	159	177	184	116
85°	26	34	38	36	34	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	769.4	769.4	769.4	769.4	769.4
2.5°	770.4	770.4	768.3	766.3	763.3
5°	765.3	766.3	765.3	764.3	763.3
7.5°	759.2	760.2	760.2	760.2	760.2
10°	752.1	753.1	753.1	753.1	753.1
12.5°	742.0	743.0	744.0	745.0	747.1
15°	726.8	729.8	731.9	735.9	737.9
17.5°	711.6	714.6	717.7	722.7	726.8
20°	694.3	696.4	701.4	707.5	711.6
22.5°	675.1	678.1	683.2	691.3	697.4
25°	652.8	656.8	663.9	675.1	680.2
27.5°	631.5	634.5	643.7	655.8	662.9
30°	606.2	610.2	621.4	636.6	643.7
32.5°	580.8	585.9	598.1	615.3	623.4
35°	554.5	560.5	574.7	593.0	603.1
37.5°	528.1	534.2	550.4	570.7	581.8
40°	500.7	506.8	525.1	547.4	559.5
42.5°	472.4	479.5	499.7	525.1	539.3
45°	444.0	451.1	473.4	501.8	517.0
47.5°	414.6	422.7	447.0	478.4	493.6
50°	385.2	394.3	421.7	454.1	469.3
52.5°	355.8	365.9	395.3	428.8	445.0
55°	327.4	338.6	370.0	403.4	418.6
57.5°	297.0	310.2	343.6	376.1	393.3
60°	268.6	282.8	317.3	349.7	368.0
62.5°	240.2	255.4	291.9	324.4	341.6
65°	212.9	228.1	264.6	298.0	315.2
67.5°	185.5	202.7	238.2	271.7	288.9
70°	159.1	177.4	211.9	244.3	261.5
72.5°	133.8	152.0	186.5	216.9	227.1
75°	108.5	126.7	159.1	177.4	183.5
77.5°	85.1	102.4	130.8	141.9	150.0
80°	63.9	79.1	99.3	106.4	107.4
82.5°	43.6	56.8	68.9	69.9	68.9
85°	26.4	33.5	37.5	35.5	33.5
87.5°	12.2	13.2	12.2	8.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)