

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: P259436

Luminaire Tested: **22CZ-LD5-20-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259436  
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-LD5-20-S-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2022.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

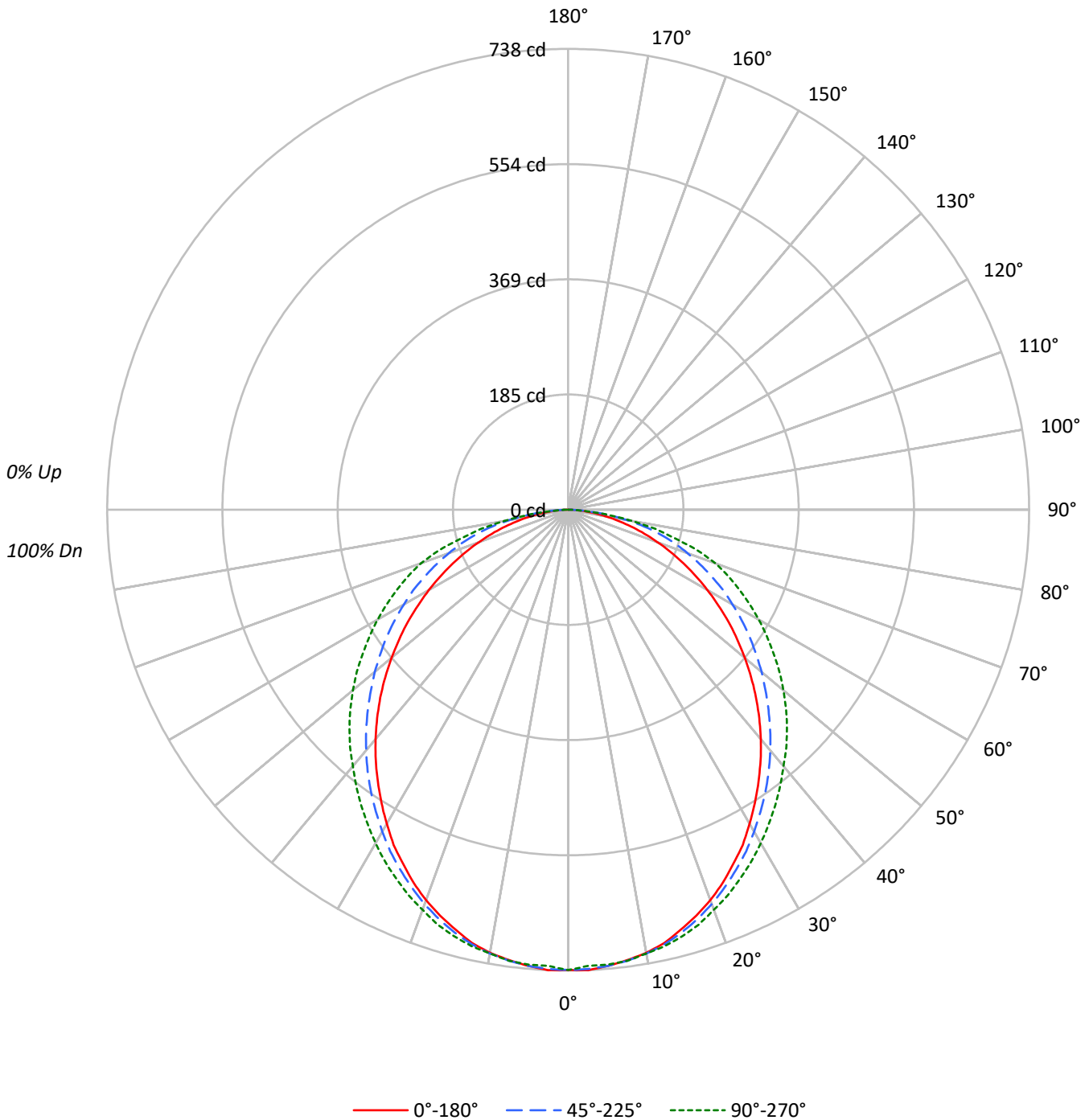
Input Watts (W): 15.531  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	1984	1984	1984
5°	1981	1981	1975
10°	1969	1972	1972
15°	1940	1953	1970
20°	1905	1925	1952
25°	1857	1889	1935
30°	1805	1850	1916
35°	1745	1809	1898
40°	1685	1767	1883
45°	1619	1726	1885
50°	1545	1691	1883
55°	1472	1663	1882
60°	1385	1636	1897
65°	1299	1614	1923
70°	1200	1597	1972
75°	1080	1586	1828
80°	948	1475	1595
85°	781	1108	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	3.4
10°-20°	197.7	9.8
20°-30°	293.7	14.5
30°-40°	345.7	17.1
40°-50°	352.4	17.4
50°-60°	317.9	15.7
60°-70°	250.4	12.4
70°-80°	154.5	7.6
80°-90°	40.1	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°	561.1	27.7
0°-40°	906.8	44.8
0°-60°	1577.1	78.0
0°-90°	2022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	733	734	733	732	731	70
15°	696	699	701	705	707	196
25°	626	629	636	647	652	288
35°	531	537	551	568	578	332
45°	425	432	454	481	495	328
55°	314	324	354	386	401	280
65°	204	218	254	286	302	202
75°	104	121	152	170	176	111
85°	25	32	36	34	32	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	737.1	737.1	737.1	737.1	737.1
2.5°	738.1	738.1	736.2	734.2	731.3
5°	733.3	734.2	733.3	732.3	731.3
7.5°	727.4	728.4	728.4	728.4	728.4
10°	720.6	721.6	721.6	721.6	721.6
12.5°	710.9	711.9	712.9	713.8	715.8
15°	696.3	699.3	701.2	705.1	707.0
17.5°	681.8	684.7	687.6	692.5	696.3
20°	665.3	667.2	672.1	677.9	681.8
22.5°	646.8	649.7	654.6	662.4	668.2
25°	625.5	629.3	636.1	646.8	651.7
27.5°	605.1	608.0	616.7	628.4	635.2
30°	580.8	584.7	595.3	609.9	616.7
32.5°	556.5	561.4	573.0	589.5	597.3
35°	531.2	537.1	550.7	568.2	577.9
37.5°	506.0	511.8	527.4	546.8	557.5
40°	479.8	485.6	503.1	524.4	536.1
42.5°	452.6	459.4	478.8	503.1	516.7
45°	425.4	432.2	453.5	480.7	495.3
47.5°	397.2	405.0	428.3	458.4	473.0
50°	369.1	377.8	404.0	435.1	449.7
52.5°	340.9	350.6	378.8	410.8	426.4
55°	313.7	324.4	354.5	386.5	401.1
57.5°	284.6	297.2	329.2	360.3	376.8
60°	257.4	271.0	304.0	335.1	352.5
62.5°	230.2	244.7	279.7	310.8	327.3
65°	204.0	218.5	253.5	285.5	302.0
67.5°	177.7	194.2	228.2	260.3	276.8
70°	152.5	170.0	203.0	234.1	250.6
72.5°	128.2	145.7	178.7	207.8	217.5
75°	103.9	121.4	152.5	170.0	175.8
77.5°	81.6	98.1	125.3	136.0	143.7
80°	61.2	75.8	95.2	102.0	102.9
82.5°	41.8	54.4	66.0	67.0	66.0
85°	25.3	32.0	35.9	34.0	32.0
87.5°	11.7	12.6	11.7	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)