

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: P260396

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-29-RDP-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2205.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

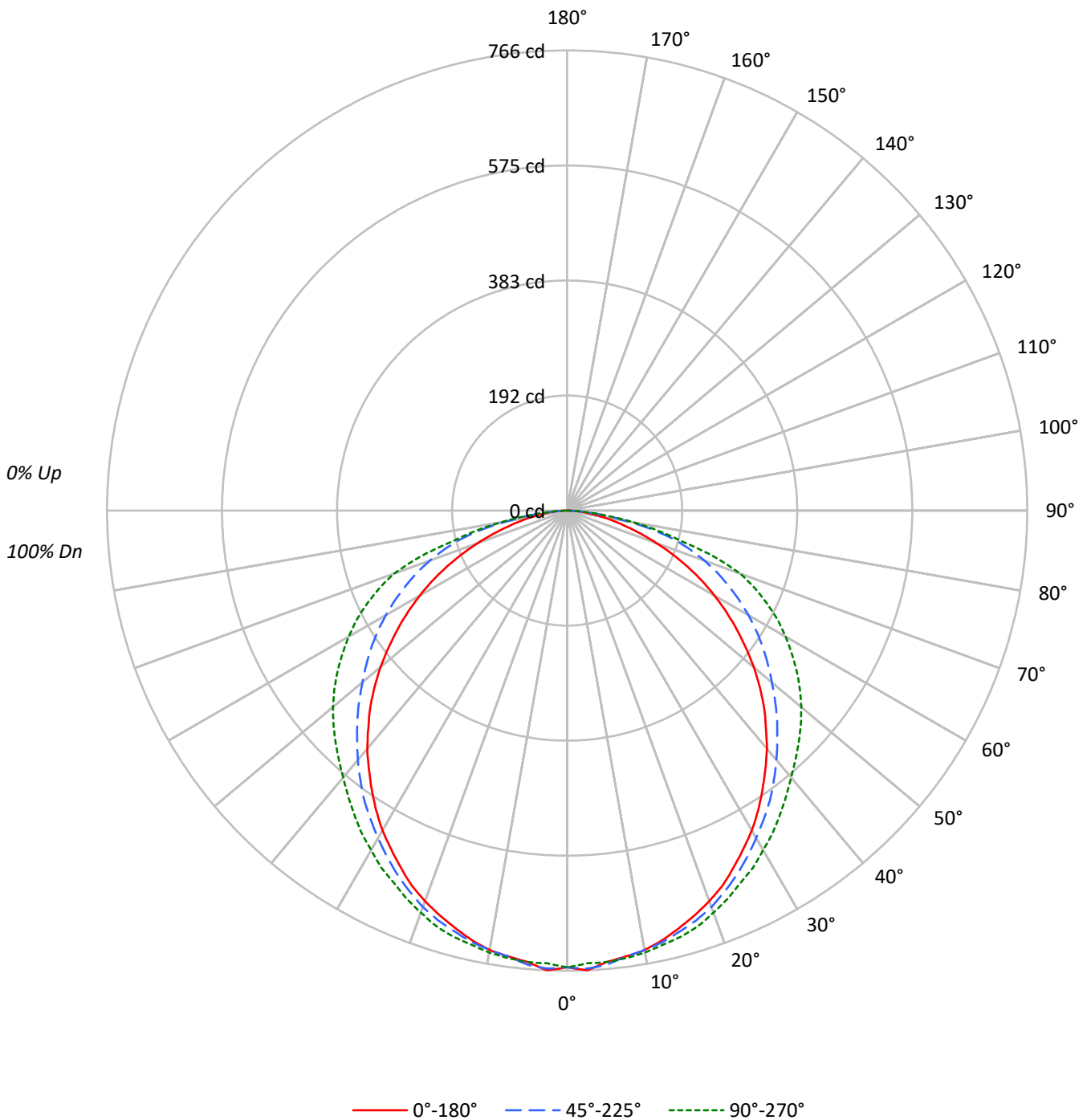
Input Watts (W): 21.297  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2046	2046	2046
5°	2038	2049	2038
10°	2030	2030	2041
15°	2004	2021	2045
20°	1981	2011	2040
25°	1946	1985	2029
30°	1910	1956	2028
35°	1862	1934	2030
40°	1818	1905	2037
45°	1765	1881	2074
50°	1698	1862	2130
55°	1616	1869	2189
60°	1525	1877	2261
65°	1407	1888	2341
70°	1246	1910	2413
75°	1057	1904	2056
80°	879	1531	1712
85°	763	1031	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.3
10°-20°	204.9	9.3
20°-30°	308.2	14.0
30°-40°	369.4	16.8
40°-50°	385.2	17.5
50°-60°	358.6	16.3
60°-70°	291.2	13.2
70°-80°	175.5	8.0
80°-90°	40.2	1.8
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°	584.9	26.5
0°-40°	954.3	43.3
0°-60°	1698.1	77.0
0°-90°	2205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	754	754	759	760	754	72
15°	720	722	725	730	734	203
25°	656	660	669	677	683	302
35°	567	574	589	606	618	355
45°	464	472	494	526	545	357
55°	344	359	398	442	467	308
65°	221	244	296	343	368	218
75°	102	135	183	195	198	110
85°	25	30	33	32	32	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	760.2	760.2	760.2	760.2	760.2
2.5°	766.0	764.6	763.1	758.7	754.4
5°	754.4	754.4	758.7	760.2	754.4
7.5°	748.6	748.6	748.6	754.4	751.5
10°	742.8	742.8	742.8	747.1	747.1
12.5°	732.6	734.0	735.5	736.9	739.9
15°	719.5	722.4	725.3	729.7	734.0
17.5°	706.4	709.3	715.1	719.5	725.3
20°	691.9	694.8	702.1	706.4	712.2
22.5°	675.9	677.3	686.1	691.9	699.2
25°	655.5	659.9	668.6	677.3	683.2
27.5°	635.2	639.6	649.7	661.4	670.1
30°	614.8	619.2	629.4	643.9	652.6
32.5°	591.6	597.4	609.0	626.5	636.7
35°	566.9	574.1	588.7	606.1	617.8
37.5°	542.2	549.4	565.4	587.2	598.9
40°	517.5	524.7	542.2	565.4	580.0
42.5°	489.8	498.6	517.5	545.1	562.5
45°	463.7	472.4	494.2	526.2	545.1
47.5°	434.6	444.8	469.5	505.8	527.6
50°	405.5	417.2	444.8	485.5	508.7
52.5°	375.0	388.1	421.5	463.7	488.4
55°	344.5	359.0	398.3	441.9	466.6
57.5°	314.0	330.0	373.6	418.6	443.3
60°	283.4	300.9	348.8	395.4	420.1
62.5°	252.9	271.8	322.7	369.2	395.4
65°	220.9	244.2	296.5	343.0	367.7
67.5°	189.0	216.6	270.4	315.4	338.7
70°	158.4	189.0	242.7	284.9	306.7
72.5°	129.4	161.3	213.7	250.0	258.7
75°	101.7	135.2	183.1	194.8	197.7
77.5°	78.5	109.0	145.4	148.3	155.5
80°	56.7	82.9	98.8	107.6	110.5
82.5°	39.2	56.7	65.4	66.9	68.3
85°	24.7	30.5	33.4	32.0	32.0
87.5°	13.1	11.6	10.2	7.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)