

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: P260395

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260395  
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-3500K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2100.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

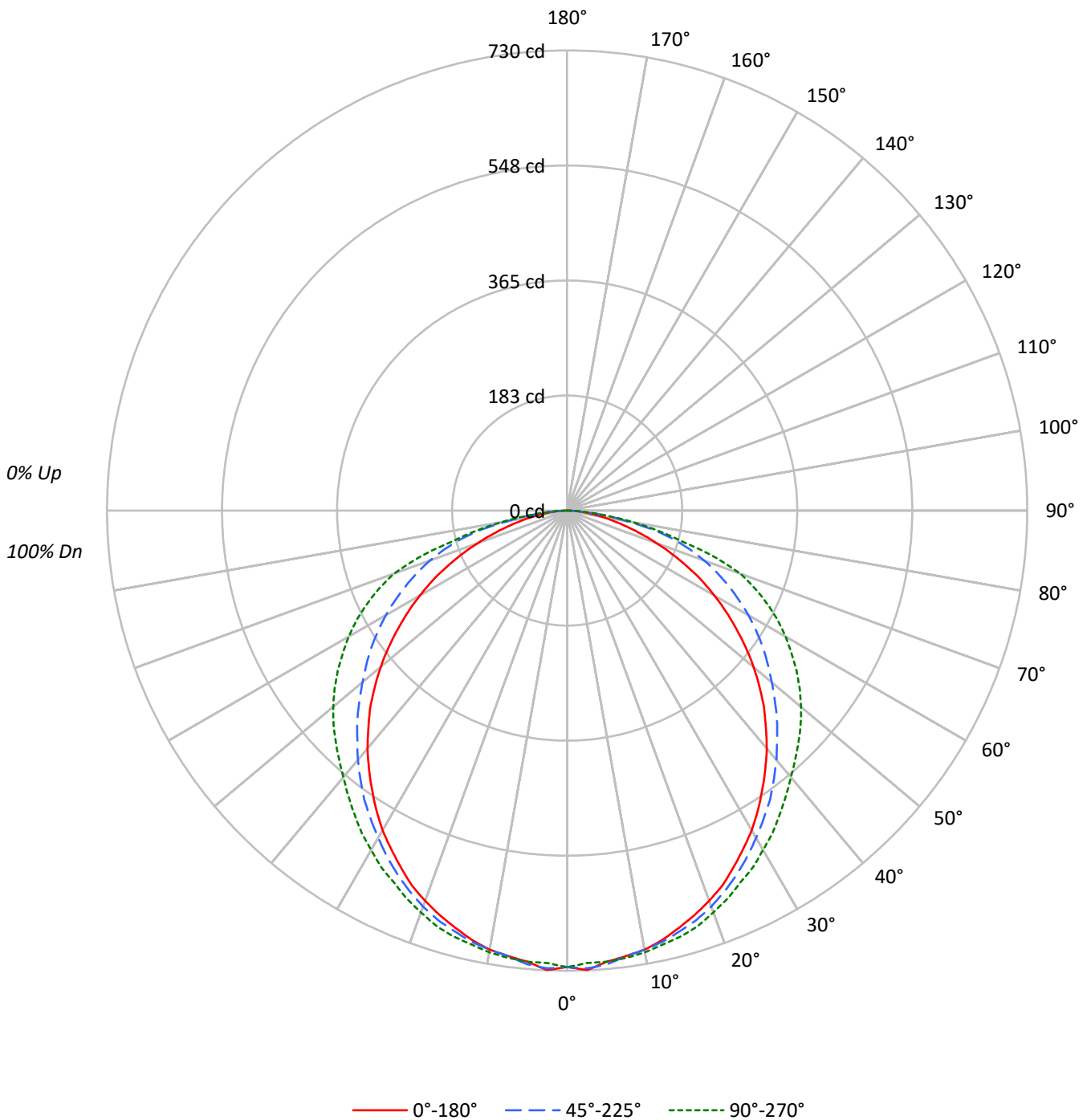
Input Watts (W): 20.832  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

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

	0°	45°	90°
0°	1948	1948	1948
5°	1941	1952	1941
10°	1933	1933	1944
15°	1909	1925	1948
20°	1887	1915	1942
25°	1854	1891	1932
30°	1820	1863	1931
35°	1774	1842	1933
40°	1731	1814	1940
45°	1681	1791	1975
50°	1617	1773	2028
55°	1539	1780	2085
60°	1453	1788	2153
65°	1340	1798	2230
70°	1187	1819	2298
75°	1007	1813	1958
80°	837	1458	1630
85°	726	982	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	3.3
10°-20°	195.1	9.3
20°-30°	293.5	14.0
30°-40°	351.8	16.8
40°-50°	366.8	17.5
50°-60°	341.5	16.3
60°-70°	277.3	13.2
70°-80°	167.1	8.0
80°-90°	38.3	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°	557.1	26.5
0°-40°	908.8	43.3
0°-60°	1617.2	77.0
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	718	718	723	724	718	68
15°	685	688	691	695	699	193
25°	624	628	637	645	651	288
35°	540	547	561	577	588	338
45°	442	450	471	501	519	340
55°	328	342	379	421	444	293
65°	210	233	282	327	350	208
75°	97	129	174	186	188	105
85°	24	29	32	30	30	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724.0	724.0	724.0	724.0	724.0
2.5°	729.5	728.2	726.8	722.6	718.5
5°	718.5	718.5	722.6	724.0	718.5
7.5°	712.9	712.9	712.9	718.5	715.7
10°	707.4	707.4	707.4	711.5	711.5
12.5°	697.7	699.1	700.5	701.9	704.6
15°	685.2	688.0	690.8	694.9	699.1
17.5°	672.8	675.5	681.1	685.2	690.8
20°	658.9	661.7	668.6	672.8	678.3
22.5°	643.7	645.1	653.4	658.9	665.9
25°	624.3	628.5	636.8	645.1	650.6
27.5°	604.9	609.1	618.8	629.9	638.2
30°	585.6	589.7	599.4	613.3	621.6
32.5°	563.4	569.0	580.0	596.6	606.3
35°	539.9	546.8	560.7	577.3	588.3
37.5°	516.4	523.3	538.5	559.3	570.3
40°	492.8	499.7	516.4	538.5	552.3
42.5°	466.5	474.8	492.8	519.1	535.7
45°	441.6	449.9	470.7	501.1	519.1
47.5°	413.9	423.6	447.1	481.7	502.5
50°	386.2	397.3	423.6	462.4	484.5
52.5°	357.2	369.6	401.5	441.6	465.1
55°	328.1	341.9	379.3	420.8	444.4
57.5°	299.0	314.2	355.8	398.7	422.2
60°	269.9	286.6	332.2	376.5	400.1
62.5°	240.9	258.9	307.3	351.6	376.5
65°	210.4	232.6	282.4	326.7	350.2
67.5°	180.0	206.3	257.5	300.4	322.5
70°	150.9	180.0	231.2	271.3	292.1
72.5°	123.2	153.7	203.5	238.1	246.4
75°	96.9	128.7	174.4	185.5	188.3
77.5°	74.8	103.8	138.4	141.2	148.1
80°	54.0	78.9	94.1	102.4	105.2
82.5°	37.4	54.0	62.3	63.7	65.1
85°	23.5	29.1	31.8	30.5	30.5
87.5°	12.5	11.1	9.7	6.9	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)