

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: P260308

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2215.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

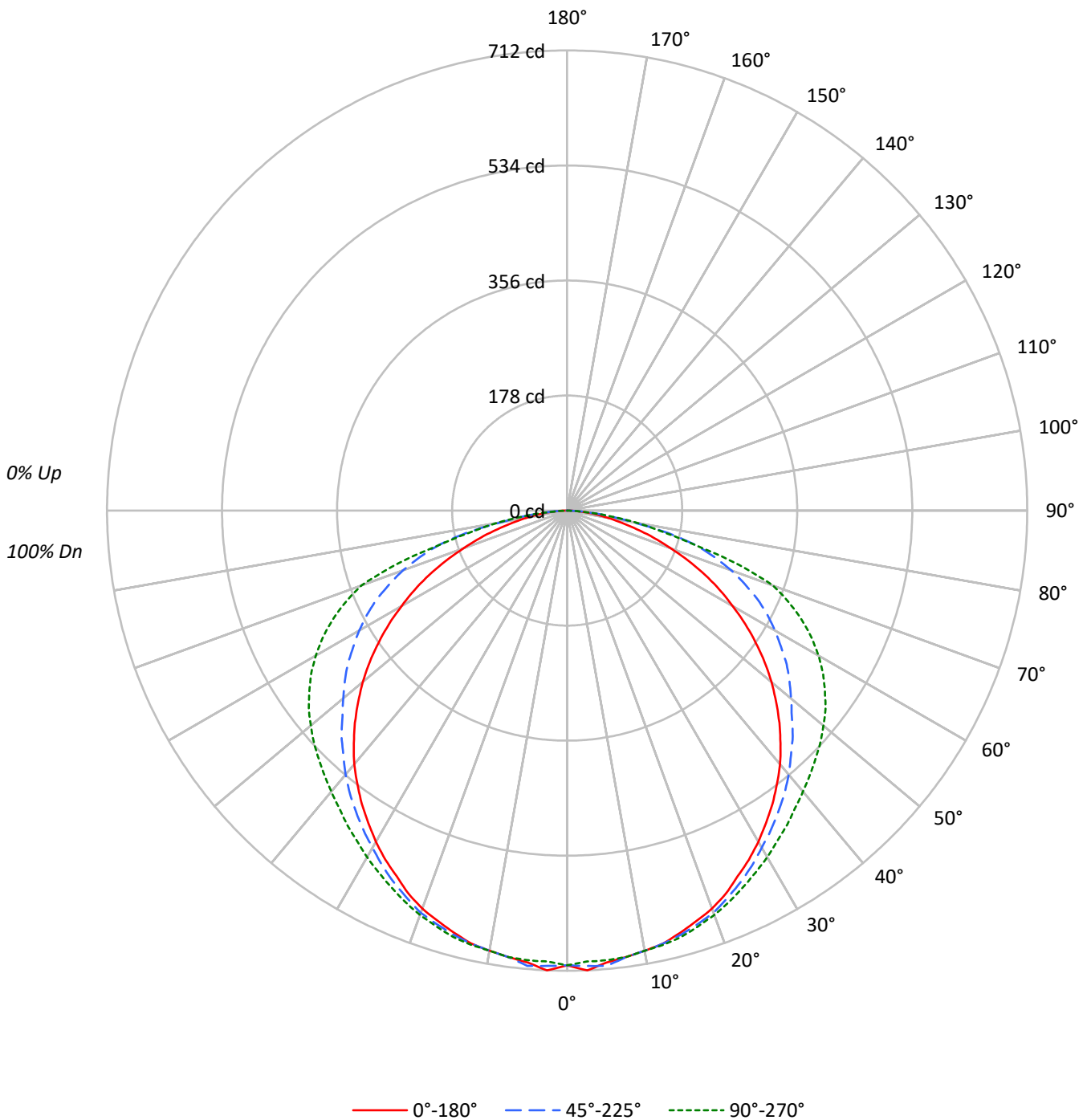
Input Watts (W): 26.226  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

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

	0°	45°	90°
0°	1893	1893	1893
5°	1896	1910	1887
10°	1890	1890	1890
15°	1883	1893	1902
20°	1877	1897	1906
25°	1854	1885	1910
30°	1839	1871	1924
35°	1820	1871	1950
40°	1801	1873	1994
45°	1767	1879	2069
50°	1728	1894	2168
55°	1671	1945	2284
60°	1593	2000	2416
65°	1501	2070	2552
70°	1340	2125	2666
75°	1162	2128	2111
80°	986	1573	1706
85°	849	1062	957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	3.0
10°-20°	191.8	8.7
20°-30°	292.3	13.2
30°-40°	357.7	16.1
40°-50°	384.9	17.4
50°-60°	372.8	16.8
60°-70°	315.8	14.3
70°-80°	190.9	8.6
80°-90°	41.9	1.9
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°	551.0	24.9
0°-40°	908.7	41.0
0°-60°	1666.4	75.2
0°-90°	2215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	702	702	707	704	698	67
15°	676	678	680	681	683	191
25°	624	628	635	640	643	288
35°	554	557	569	585	594	346
45°	464	473	494	525	544	358
55°	356	372	415	463	487	318
65°	236	262	325	377	401	232
75°	112	151	205	208	203	120
85°	28	33	34	33	31	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.5	703.5	703.5	703.5	703.5
2.5°	712.1	710.4	705.3	701.8	698.4
5°	701.8	701.8	707.0	703.5	698.4
7.5°	696.7	696.7	696.7	705.3	696.7
10°	691.5	693.2	691.5	698.4	691.5
12.5°	686.3	686.3	686.3	688.1	688.1
15°	676.0	677.7	679.5	681.2	682.9
17.5°	665.7	667.4	670.9	672.6	674.3
20°	655.4	657.1	662.3	662.3	665.7
22.5°	641.6	641.6	648.5	650.2	655.4
25°	624.4	627.9	634.7	639.9	643.3
27.5°	608.9	612.4	619.3	626.1	631.3
30°	591.7	595.2	602.1	612.4	619.3
32.5°	572.8	576.3	586.6	598.6	605.5
35°	553.9	557.3	569.4	584.9	593.5
37.5°	533.2	538.4	552.2	569.4	579.7
40°	512.6	517.8	533.2	552.2	567.7
42.5°	488.5	495.4	512.6	538.4	555.6
45°	464.4	473.0	493.7	524.6	543.6
47.5°	438.6	447.2	471.3	510.9	531.5
50°	412.8	423.2	452.4	495.4	517.8
52.5°	385.3	395.6	433.5	479.9	504.0
55°	356.1	371.6	414.6	462.7	486.8
57.5°	326.8	344.0	392.2	443.8	469.6
60°	295.9	316.5	371.6	423.2	449.0
62.5°	266.6	289.0	349.2	400.8	426.6
65°	235.7	261.5	325.1	376.7	400.8
67.5°	203.0	235.7	297.6	347.5	371.6
70°	170.3	208.1	270.1	316.5	338.9
72.5°	141.1	180.6	239.1	278.7	278.7
75°	111.8	151.4	204.7	208.1	203.0
77.5°	86.0	123.9	160.0	146.2	149.7
80°	63.6	94.6	101.5	106.6	110.1
82.5°	43.0	63.6	65.4	68.8	68.8
85°	27.5	32.7	34.4	32.7	31.0
87.5°	12.0	13.8	10.3	6.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)