

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: P277579

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2177.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

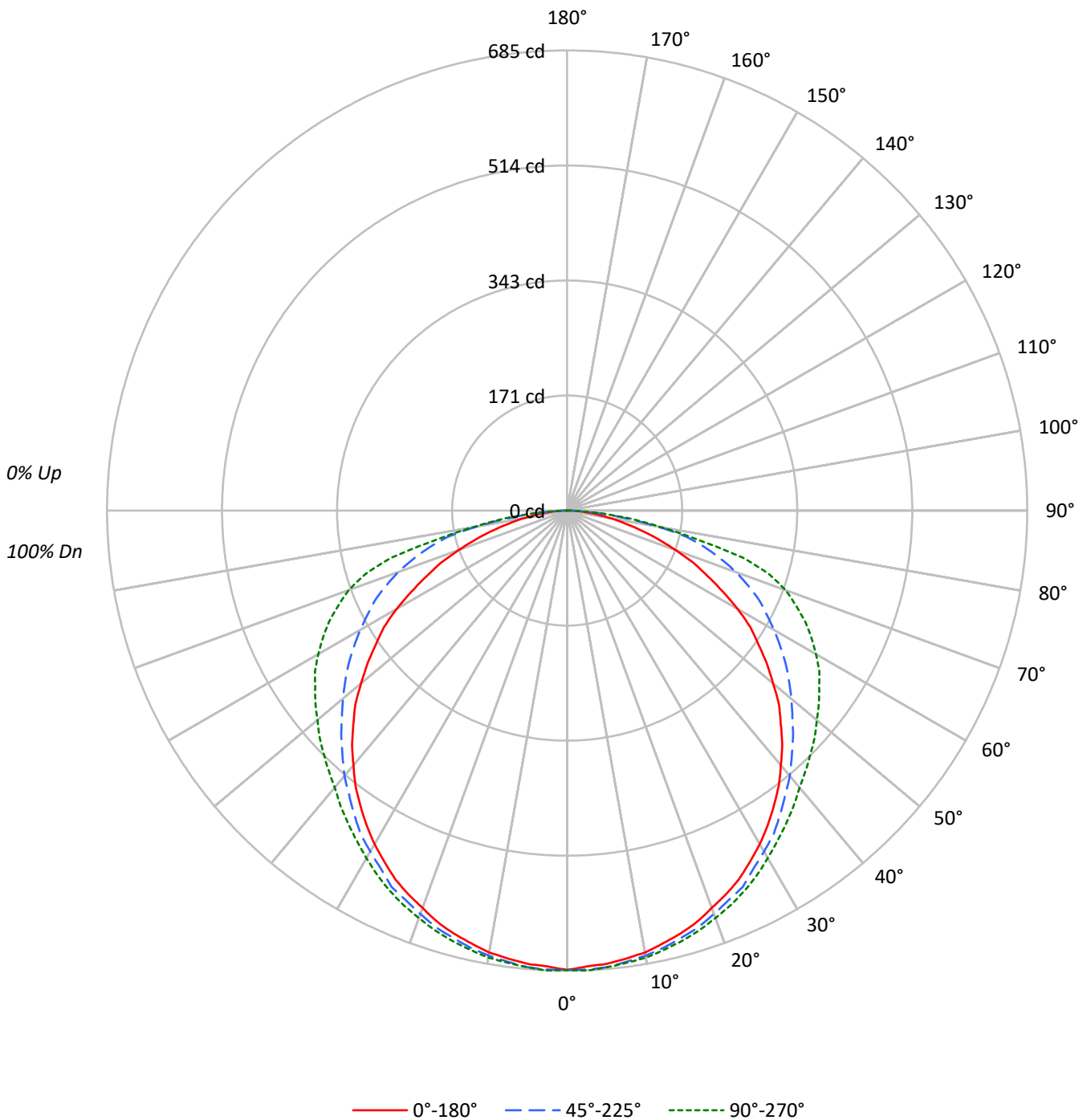
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P277579

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P277579

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4500K

**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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	1840	1840	1840
5°	1830	1843	1843
10°	1825	1838	1847
15°	1816	1834	1847
20°	1802	1830	1848
25°	1798	1836	1855
30°	1781	1821	1856
35°	1762	1815	1868
40°	1738	1812	1890
45°	1713	1810	1950
50°	1676	1824	2031
55°	1630	1863	2149
60°	1577	1913	2301
65°	1468	2009	2488
70°	1349	2104	2722
75°	1182	2215	2815
80°	1018	2109	2208
85°	889	1531	1683



TEST NUMBER: P277579

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.7	3.0
10°-20°	185.7	8.5
20°-30°	283.4	13.0
30°-40°	346.0	15.9
40°-50°	369.9	17.0
50°-60°	357.1	16.4
60°-70°	307.4	14.1
70°-80°	208.0	9.6
80°-90°	54.9	2.5
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°	533.8	24.5
0°-40°	879.8	40.4
0°-60°	1606.8	73.8
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	677	679	682	682	682	64
15°	652	653	658	661	663	184
25°	605	609	618	621	625	279
35°	536	541	552	564	568	336
45°	450	458	476	500	512	347
55°	348	359	397	437	458	311
65°	231	253	316	365	391	229
75°	114	150	213	256	271	122
85°	29	40	50	51	54	32
90°	0	0	0	0	0	



TEST NUMBER: P277579

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	683.8	683.8	683.8	683.8	683.8
2.5°	679.0	680.6	683.8	683.8	685.4
5°	677.4	679.0	682.2	682.2	682.2
7.5°	672.6	674.2	677.4	679.0	679.0
10°	667.8	669.4	672.6	674.2	675.8
12.5°	659.8	661.4	666.2	669.4	669.4
15°	651.8	653.4	658.2	661.4	663.0
17.5°	642.2	645.4	650.2	653.4	655.0
20°	629.4	632.6	639.0	643.8	645.4
22.5°	618.2	621.4	627.8	632.6	635.8
25°	605.4	608.6	618.2	621.4	624.6
27.5°	589.3	592.5	600.6	607.0	611.8
30°	573.3	576.5	586.1	594.2	597.4
32.5°	555.7	560.5	571.7	578.1	582.9
35°	536.5	541.3	552.5	563.7	568.5
37.5°	517.3	522.1	533.3	547.7	554.1
40°	494.9	501.3	515.7	534.9	538.1
42.5°	474.0	482.0	494.9	517.3	525.3
45°	450.0	458.0	475.6	499.7	512.5
47.5°	427.6	435.6	454.8	483.6	499.7
50°	400.4	411.6	435.6	469.2	485.2
52.5°	374.7	384.4	416.4	453.2	472.4
55°	347.5	358.7	397.2	437.2	458.0
57.5°	323.5	333.1	376.3	421.2	445.2
60°	293.1	305.9	355.5	403.6	427.6
62.5°	261.0	280.3	334.7	384.4	410.0
65°	230.6	253.0	315.5	365.1	390.8
67.5°	203.4	227.4	291.5	344.3	368.3
70°	171.4	201.8	267.4	318.7	345.9
72.5°	142.5	176.2	240.2	291.5	315.5
75°	113.7	150.5	213.0	256.2	270.7
77.5°	88.1	123.3	182.6	195.4	197.0
80°	65.7	97.7	136.1	137.7	142.5
82.5°	44.8	68.9	88.1	96.1	97.7
85°	28.8	40.0	49.6	51.2	54.5
87.5°	12.8	14.4	17.6	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)