

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: P277632

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277632  
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-L92765-W2A1-U-4000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1893.0 lumens  
Efficiency: N/A  
Efficacy: 73.0 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

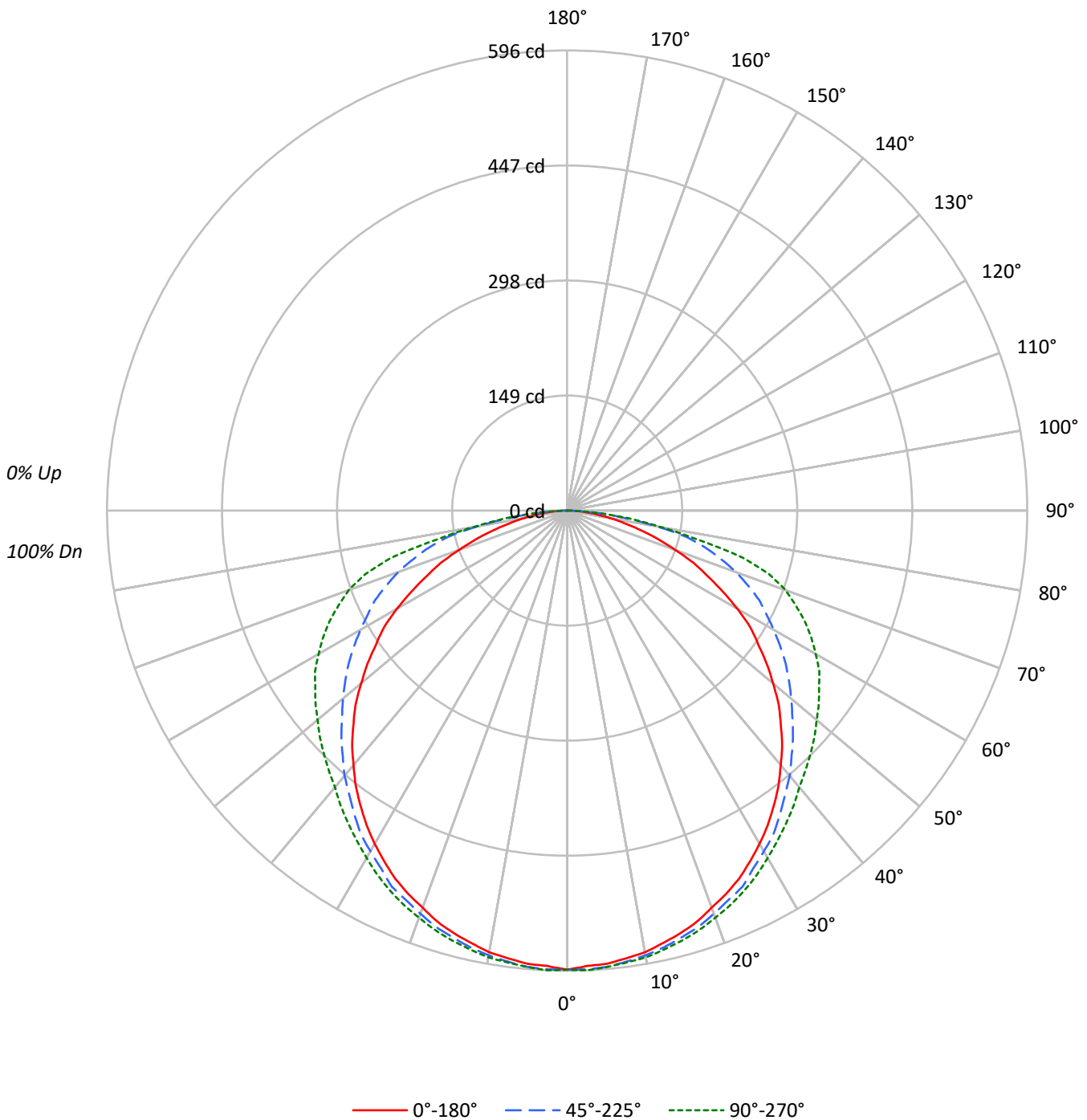
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1600	1600	1600
5°	1591	1602	1602
10°	1587	1598	1606
15°	1579	1594	1606
20°	1567	1591	1607
25°	1563	1596	1613
30°	1549	1584	1614
35°	1532	1578	1624
40°	1512	1575	1644
45°	1489	1574	1696
50°	1457	1586	1766
55°	1418	1620	1869
60°	1371	1664	2001
65°	1277	1747	2164
70°	1172	1830	2367
75°	1028	1926	2446
80°	885	1835	1920
85°	775	1334	1460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	3.0
10°-20°	161.5	8.5
20°-30°	246.4	13.0
30°-40°	300.9	15.9
40°-50°	321.7	17.0
50°-60°	310.5	16.4
60°-70°	267.3	14.1
70°-80°	180.8	9.6
80°-90°	47.7	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°	464.1	24.5
0°-40°	765.0	40.4
0°-60°	1397.2	73.8
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	589	590	593	593	593	56
15°	567	568	572	575	576	160
25°	526	529	538	540	543	242
35°	466	471	480	490	494	292
45°	391	398	414	434	446	302
55°	302	312	345	380	398	271
65°	200	220	274	318	340	199
75°	99	131	185	223	235	106
85°	25	35	43	45	47	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	594.6	594.6	594.6	594.6	594.6
2.5°	590.4	591.8	594.6	594.6	596.0
5°	589.1	590.4	593.2	593.2	593.2
7.5°	584.9	586.3	589.1	590.4	590.4
10°	580.7	582.1	584.9	586.3	587.7
12.5°	573.7	575.1	579.3	582.1	582.1
15°	566.8	568.2	572.3	575.1	576.5
17.5°	558.4	561.2	565.4	568.2	569.6
20°	547.3	550.1	555.6	559.8	561.2
22.5°	537.5	540.3	545.9	550.1	552.8
25°	526.4	529.2	537.5	540.3	543.1
27.5°	512.5	515.2	522.2	527.8	532.0
30°	498.5	501.3	509.7	516.6	519.4
32.5°	483.2	487.4	497.1	502.7	506.9
35°	466.5	470.7	480.4	490.2	494.4
37.5°	449.8	454.0	463.7	476.3	481.8
40°	430.3	435.9	448.4	465.1	467.9
42.5°	412.2	419.2	430.3	449.8	456.8
45°	391.3	398.3	413.6	434.5	445.6
47.5°	371.8	378.8	395.5	420.6	434.5
50°	348.1	357.9	378.8	408.0	421.9
52.5°	325.9	334.2	362.1	394.1	410.8
55°	302.2	311.9	345.4	380.2	398.3
57.5°	281.3	289.7	327.3	366.2	387.1
60°	254.8	266.0	309.1	350.9	371.8
62.5°	227.0	243.7	291.0	334.2	356.5
65°	200.5	220.0	274.3	317.5	339.8
67.5°	176.9	197.7	253.4	299.4	320.3
70°	149.0	175.5	232.6	277.1	300.8
72.5°	123.9	153.2	208.9	253.4	274.3
75°	98.9	130.9	185.2	222.8	235.3
77.5°	76.6	107.2	158.8	169.9	171.3
80°	57.1	84.9	118.4	119.8	123.9
82.5°	39.0	59.9	76.6	83.6	84.9
85°	25.1	34.8	43.2	44.6	47.3
87.5°	11.1	12.5	15.3	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)