

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: P277578

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277578  
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-4000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2140.0 lumens  
Efficiency: N/A  
Efficacy: 82.5 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

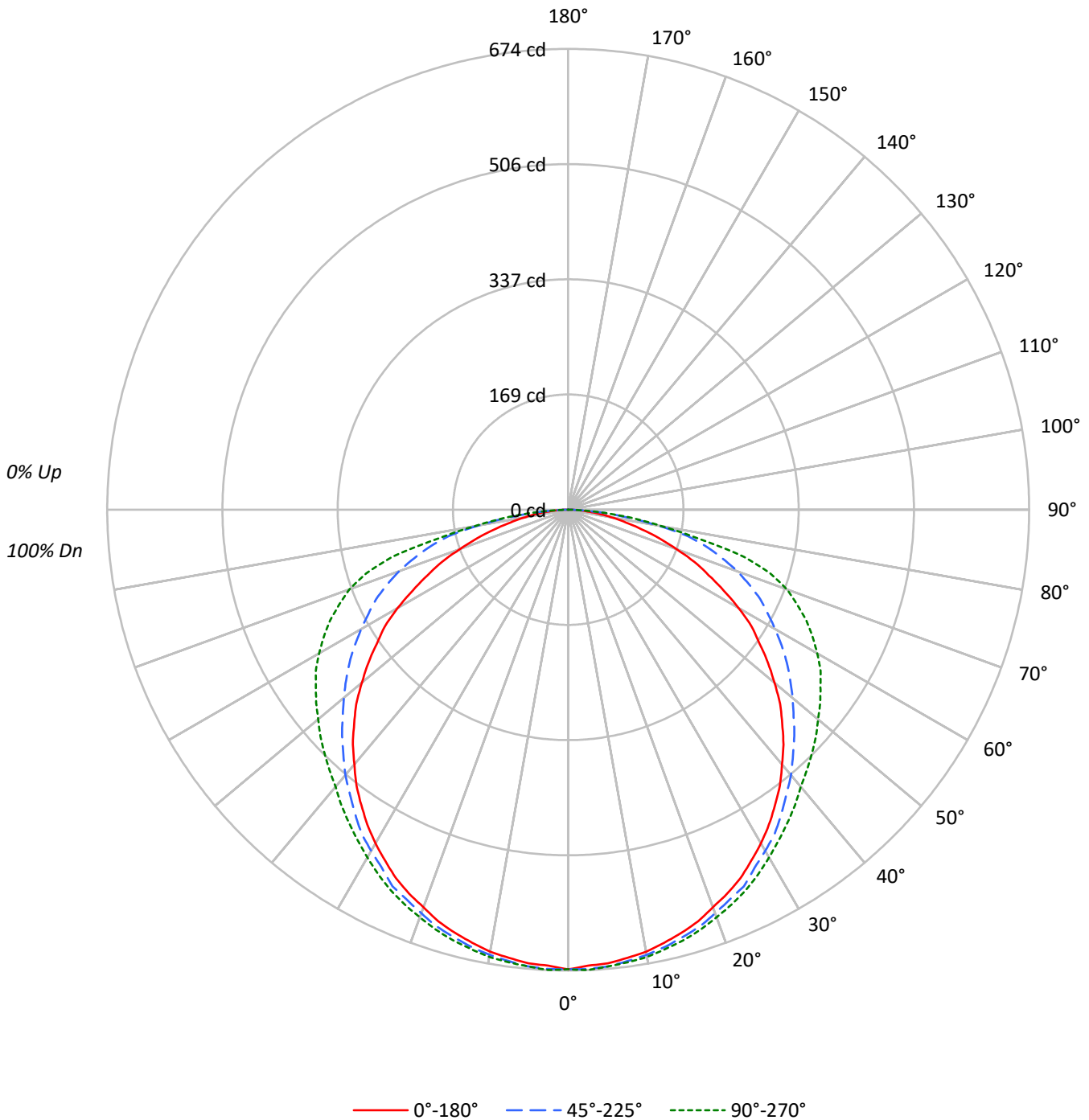
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1809	1809	1809
5°	1799	1811	1811
10°	1794	1807	1815
15°	1785	1802	1816
20°	1772	1799	1817
25°	1767	1804	1823
30°	1751	1790	1825
35°	1733	1784	1836
40°	1709	1781	1858
45°	1684	1780	1917
50°	1648	1793	1997
55°	1603	1832	2112
60°	1551	1881	2262
65°	1443	1975	2446
70°	1325	2068	2675
75°	1162	2177	2767
80°	1000	2073	2171
85°	874	1507	1652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	182.6	8.5
20°-30°	278.5	13.0
30°-40°	340.1	15.9
40°-50°	363.7	17.0
50°-60°	351.0	16.4
60°-70°	302.1	14.1
70°-80°	204.4	9.6
80°-90°	53.9	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°	524.7	24.5
0°-40°	864.8	40.4
0°-60°	1579.5	73.8
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	666	668	671	671	671	63
15°	641	642	647	650	652	181
25°	595	598	608	611	614	274
35°	527	532	543	554	559	330
45°	442	450	468	491	504	341
55°	342	353	390	430	450	306
65°	227	249	310	359	384	225
75°	112	148	209	252	266	120
85°	28	39	49	50	54	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	672.2	672.2	672.2	672.2	672.2
2.5°	667.5	669.1	672.2	672.2	673.8
5°	665.9	667.5	670.6	670.6	670.6
7.5°	661.2	662.8	665.9	667.5	667.5
10°	656.5	658.0	661.2	662.8	664.3
12.5°	648.6	650.2	654.9	658.0	658.0
15°	640.7	642.3	647.0	650.2	651.7
17.5°	631.3	634.4	639.2	642.3	643.9
20°	618.7	621.8	628.1	632.9	634.4
22.5°	607.7	610.8	617.1	621.8	625.0
25°	595.1	598.2	607.7	610.8	614.0
27.5°	579.3	582.5	590.3	596.6	601.4
30°	563.6	566.7	576.2	584.1	587.2
32.5°	546.3	551.0	562.0	568.3	573.0
35°	527.4	532.1	543.1	554.1	558.9
37.5°	508.5	513.2	524.2	538.4	544.7
40°	486.4	492.7	506.9	525.8	529.0
42.5°	466.0	473.9	486.4	508.5	516.4
45°	442.4	450.2	467.6	491.2	503.8
47.5°	420.3	428.2	447.1	475.4	491.2
50°	393.6	404.6	428.2	461.3	477.0
52.5°	368.4	377.8	409.3	445.5	464.4
55°	341.6	352.6	390.4	429.8	450.2
57.5°	318.0	327.4	370.0	414.0	437.6
60°	288.1	300.7	349.5	396.7	420.3
62.5°	256.6	275.5	329.0	377.8	403.0
65°	226.7	248.7	310.1	358.9	384.1
67.5°	199.9	223.5	286.5	338.5	362.1
70°	168.4	198.4	262.9	313.3	340.0
72.5°	140.1	173.2	236.1	286.5	310.1
75°	111.8	148.0	209.4	251.9	266.1
77.5°	86.6	121.2	179.5	192.1	193.6
80°	64.5	96.0	133.8	135.4	140.1
82.5°	44.1	67.7	86.6	94.5	96.0
85°	28.3	39.4	48.8	50.4	53.5
87.5°	12.6	14.2	17.3	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)