

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: P277534

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277534  
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-L93050-W2A1-U-3500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1822.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

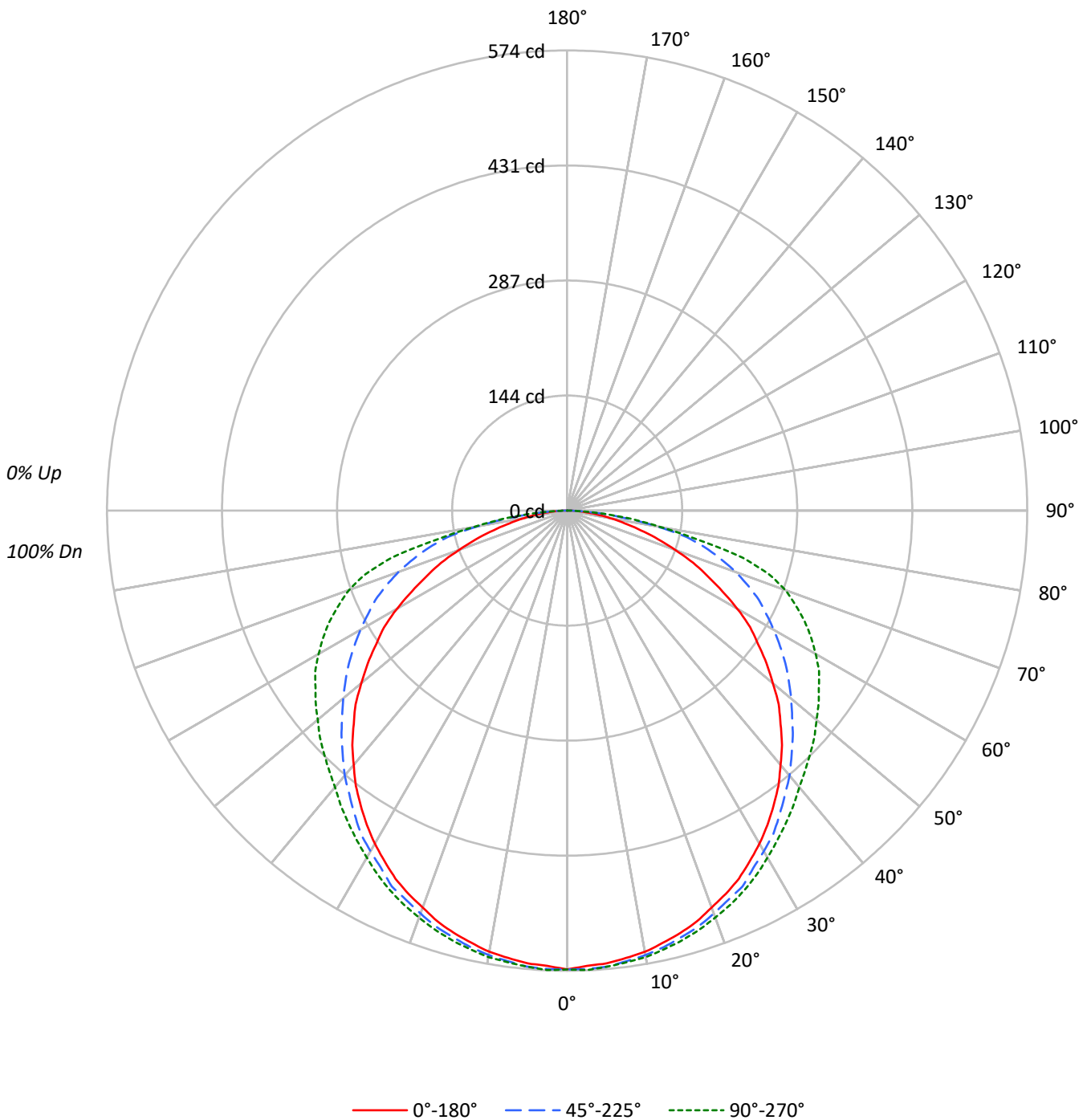
Input Watts (W): 26.155692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1540	1540	1540
5°	1532	1542	1542
10°	1527	1538	1545
15°	1520	1535	1546
20°	1509	1531	1547
25°	1504	1536	1552
30°	1491	1524	1553
35°	1475	1519	1563
40°	1455	1516	1582
45°	1433	1515	1632
50°	1403	1526	1700
55°	1365	1559	1798
60°	1320	1602	1926
65°	1229	1681	2082
70°	1128	1761	2278
75°	990	1854	2355
80°	852	1765	1849
85°	744	1284	1408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	3.0
10°-20°	155.4	8.5
20°-30°	237.1	13.0
30°-40°	289.6	15.9
40°-50°	309.6	17.0
50°-60°	298.8	16.4
60°-70°	257.3	14.1
70°-80°	174.1	9.6
80°-90°	45.9	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°	446.7	24.5
0°-40°	736.3	40.4
0°-60°	1344.8	73.8
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	567	568	571	571	571	54
15°	546	547	551	554	555	154
25°	507	509	517	520	523	233
35°	449	453	462	472	476	281
45°	377	383	398	418	429	291
55°	291	300	332	366	383	261
65°	193	212	264	306	327	192
75°	95	126	178	214	226	102
85°	24	34	42	43	46	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	572.3	572.3	572.3	572.3	572.3
2.5°	568.3	569.6	572.3	572.3	573.7
5°	567.0	568.3	571.0	571.0	571.0
7.5°	562.9	564.3	567.0	568.3	568.3
10°	558.9	560.3	562.9	564.3	565.6
12.5°	552.2	553.6	557.6	560.3	560.3
15°	545.5	546.9	550.9	553.6	554.9
17.5°	537.5	540.2	544.2	546.9	548.2
20°	526.8	529.4	534.8	538.8	540.2
22.5°	517.4	520.0	525.4	529.4	532.1
25°	506.6	509.3	517.4	520.0	522.7
27.5°	493.2	495.9	502.6	508.0	512.0
30°	479.8	482.5	490.6	497.3	499.9
32.5°	465.1	469.1	478.5	483.9	487.9
35°	449.0	453.0	462.4	471.8	475.8
37.5°	432.9	436.9	446.3	458.4	463.8
40°	414.2	419.5	431.6	447.7	450.4
42.5°	396.7	403.4	414.2	432.9	439.6
45°	376.6	383.3	398.1	418.2	428.9
47.5°	357.9	364.6	380.7	404.8	418.2
50°	335.1	344.5	364.6	392.7	406.1
52.5°	313.6	321.7	348.5	379.3	395.4
55°	290.9	300.2	332.4	365.9	383.3
57.5°	270.7	278.8	315.0	352.5	372.6
60°	245.3	256.0	297.6	337.8	357.9
62.5°	218.5	234.6	280.1	321.7	343.1
65°	193.0	211.8	264.0	305.6	327.0
67.5°	170.2	190.3	243.9	288.2	308.3
70°	143.4	168.9	223.8	266.7	289.5
72.5°	119.3	147.4	201.0	243.9	264.0
75°	95.2	126.0	178.3	214.5	226.5
77.5°	73.7	103.2	152.8	163.5	164.9
80°	55.0	81.8	113.9	115.3	119.3
82.5°	37.5	57.6	73.7	80.4	81.8
85°	24.1	33.5	41.6	42.9	45.6
87.5°	10.7	12.1	14.7	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)