

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: P260231

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260231  
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-L83050-W2A1-U-3000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2033.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

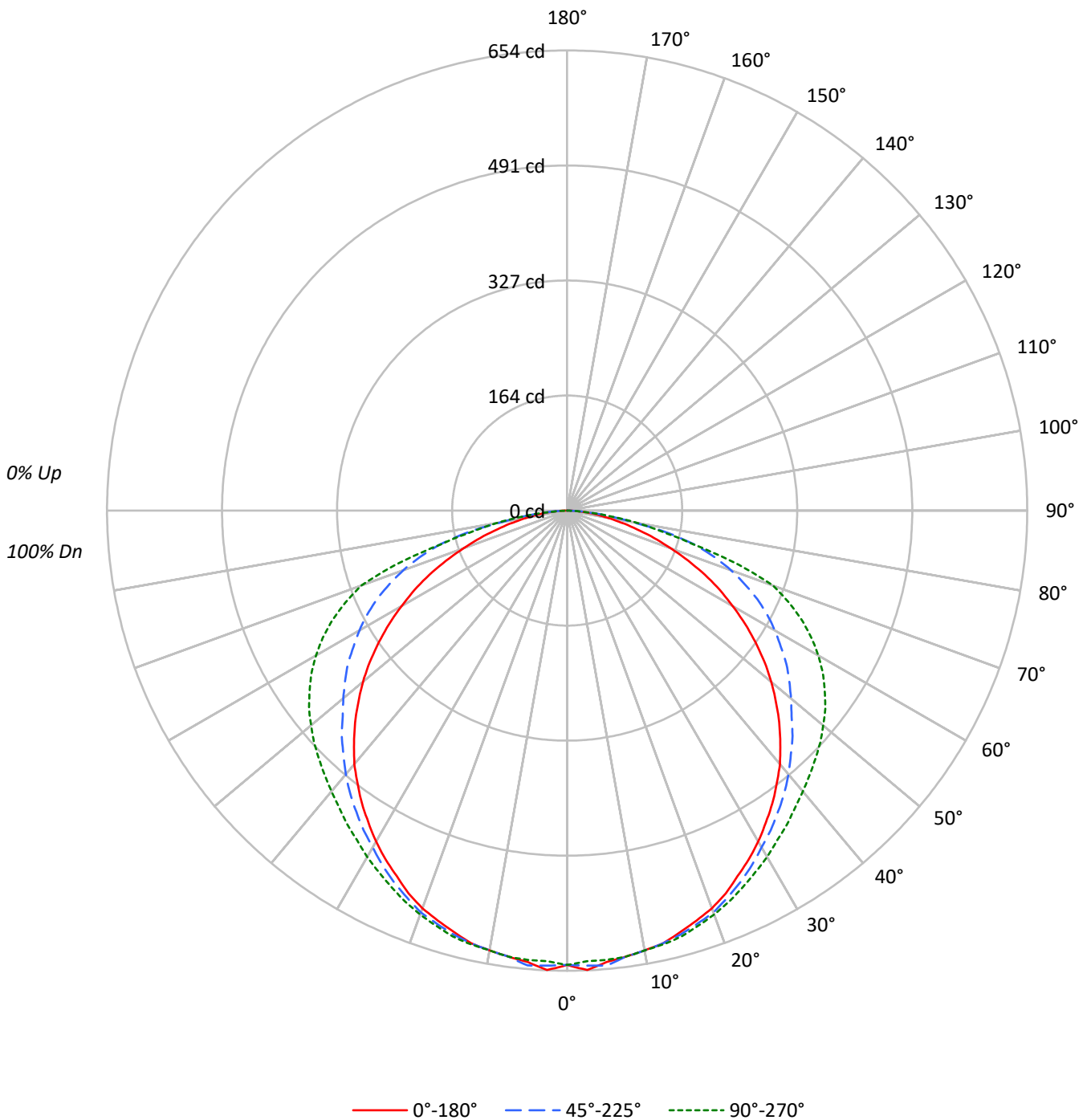
Input Watts (W): 25.575  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1738	1738	1738
5°	1740	1753	1732
10°	1734	1734	1734
15°	1729	1737	1746
20°	1723	1741	1750
25°	1702	1730	1753
30°	1688	1717	1766
35°	1670	1717	1789
40°	1653	1719	1830
45°	1622	1724	1899
50°	1586	1738	1989
55°	1533	1785	2096
60°	1462	1835	2218
65°	1377	1900	2343
70°	1230	1950	2447
75°	1067	1954	1937
80°	905	1444	1565
85°	781	976	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	3.0
10°-20°	176.1	8.7
20°-30°	268.3	13.2
30°-40°	328.3	16.1
40°-50°	353.2	17.4
50°-60°	342.2	16.8
60°-70°	289.9	14.3
70°-80°	175.2	8.6
80°-90°	38.5	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°	505.7	24.9
0°-40°	834.0	41.0
0°-60°	1529.4	75.2
0°-90°	2033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	644	644	649	646	641	61
15°	620	622	624	625	627	175
25°	573	576	583	587	590	265
35°	508	512	523	537	545	318
45°	426	434	453	482	499	329
55°	327	341	380	425	447	292
65°	216	240	298	346	368	213
75°	103	139	188	191	186	110
85°	25	30	32	30	28	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	645.7	645.7	645.7	645.7	645.7
2.5°	653.6	652.1	647.3	644.2	641.0
5°	644.2	644.2	648.9	645.7	641.0
7.5°	639.4	639.4	639.4	647.3	639.4
10°	634.7	636.3	634.7	641.0	634.7
12.5°	629.9	629.9	629.9	631.5	631.5
15°	620.5	622.1	623.6	625.2	626.8
17.5°	611.0	612.6	615.7	617.3	618.9
20°	601.5	603.1	607.8	607.8	611.0
22.5°	588.9	588.9	595.2	596.8	601.5
25°	573.1	576.3	582.6	587.3	590.5
27.5°	558.9	562.1	568.4	574.7	579.4
30°	543.1	546.3	552.6	562.1	568.4
32.5°	525.7	528.9	538.4	549.4	555.7
35°	508.4	511.5	522.6	536.8	544.7
37.5°	489.4	494.2	506.8	522.6	532.1
40°	470.5	475.2	489.4	506.8	521.0
42.5°	448.4	454.7	470.5	494.2	510.0
45°	426.3	434.2	453.1	481.5	498.9
47.5°	402.6	410.5	432.6	468.9	487.9
50°	378.9	388.4	415.2	454.7	475.2
52.5°	353.7	363.1	397.9	440.5	462.6
55°	326.8	341.0	380.5	424.7	446.8
57.5°	300.0	315.8	360.0	407.3	431.0
60°	271.6	290.5	341.0	388.4	412.1
62.5°	244.7	265.2	320.5	367.9	391.5
65°	216.3	240.0	298.4	345.8	367.9
67.5°	186.3	216.3	273.1	318.9	341.0
70°	156.3	191.0	247.9	290.5	311.0
72.5°	129.5	165.8	219.5	255.8	255.8
75°	102.6	138.9	187.9	191.0	186.3
77.5°	78.9	113.7	146.8	134.2	137.4
80°	58.4	86.8	93.2	97.9	101.0
82.5°	39.5	58.4	60.0	63.2	63.2
85°	25.3	30.0	31.6	30.0	28.4
87.5°	11.1	12.6	9.5	6.3	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)