

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: P260304

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260304  
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-L82765-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: 2031.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

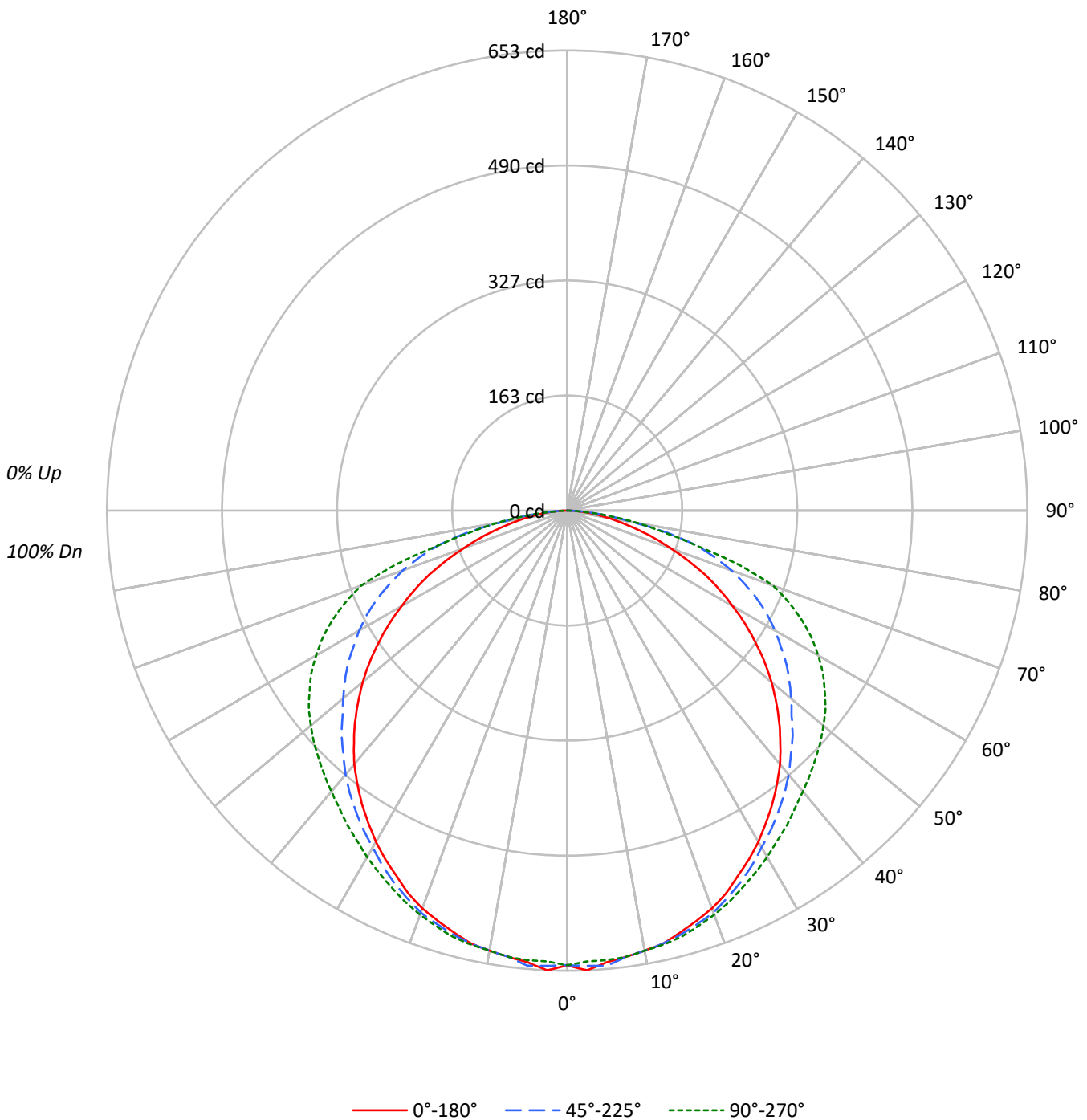
Input Watts (W): 25.482  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1736	1736	1736
5°	1738	1751	1730
10°	1733	1733	1733
15°	1727	1736	1745
20°	1721	1739	1748
25°	1700	1728	1752
30°	1686	1715	1764
35°	1668	1715	1788
40°	1651	1718	1828
45°	1621	1723	1897
50°	1585	1737	1988
55°	1532	1783	2094
60°	1460	1834	2216
65°	1376	1898	2340
70°	1228	1948	2445
75°	1066	1952	1935
80°	905	1443	1564
85°	778	973	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	3.0
10°-20°	175.9	8.7
20°-30°	268.0	13.2
30°-40°	328.0	16.1
40°-50°	352.9	17.4
50°-60°	341.8	16.8
60°-70°	289.6	14.3
70°-80°	175.0	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°	505.2	24.9
0°-40°	833.2	41.0
0°-60°	1527.9	75.2
0°-90°	2031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	644	644	648	645	640	61
15°	620	621	623	625	626	175
25°	572	576	582	587	590	264
35°	508	511	522	536	544	318
45°	426	434	453	481	498	328
55°	326	341	380	424	446	292
65°	216	240	298	345	368	213
75°	102	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°	645.1	645.1	645.1	645.1	645.1
2.5°	653.0	651.4	646.7	643.5	640.4
5°	643.5	643.5	648.3	645.1	640.4
7.5°	638.8	638.8	638.8	646.7	638.8
10°	634.1	635.6	634.1	640.4	634.1
12.5°	629.3	629.3	629.3	630.9	630.9
15°	619.9	621.4	623.0	624.6	626.2
17.5°	610.4	612.0	615.1	616.7	618.3
20°	600.9	602.5	607.2	607.2	610.4
22.5°	588.3	588.3	594.6	596.2	600.9
25°	572.5	575.7	582.0	586.7	589.9
27.5°	558.4	561.5	567.8	574.1	578.9
30°	542.6	545.7	552.0	561.5	567.8
32.5°	525.2	528.4	537.8	548.9	555.2
35°	507.9	511.0	522.1	536.3	544.2
37.5°	489.0	493.7	506.3	522.1	531.5
40°	470.0	474.8	489.0	506.3	520.5
42.5°	447.9	454.3	470.0	493.7	509.5
45°	425.9	433.7	452.7	481.1	498.4
47.5°	402.2	410.1	432.2	468.4	487.4
50°	378.5	388.0	414.8	454.3	474.8
52.5°	353.3	362.8	397.5	440.1	462.1
55°	326.5	340.7	380.1	424.3	446.4
57.5°	299.7	315.5	359.6	406.9	430.6
60°	271.3	290.2	340.7	388.0	411.7
62.5°	244.5	265.0	320.2	367.5	391.2
65°	216.1	239.7	298.1	345.4	367.5
67.5°	186.1	216.1	272.9	318.6	340.7
70°	156.1	190.8	247.6	290.2	310.7
72.5°	129.3	165.6	219.2	255.5	255.5
75°	102.5	138.8	187.7	190.8	186.1
77.5°	78.9	113.6	146.7	134.1	137.2
80°	58.4	86.7	93.1	97.8	100.9
82.5°	39.4	58.4	59.9	63.1	63.1
85°	25.2	30.0	31.5	30.0	28.4
87.5°	11.0	12.6	9.5	6.3	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)