

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: P260303

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260303
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-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1974.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

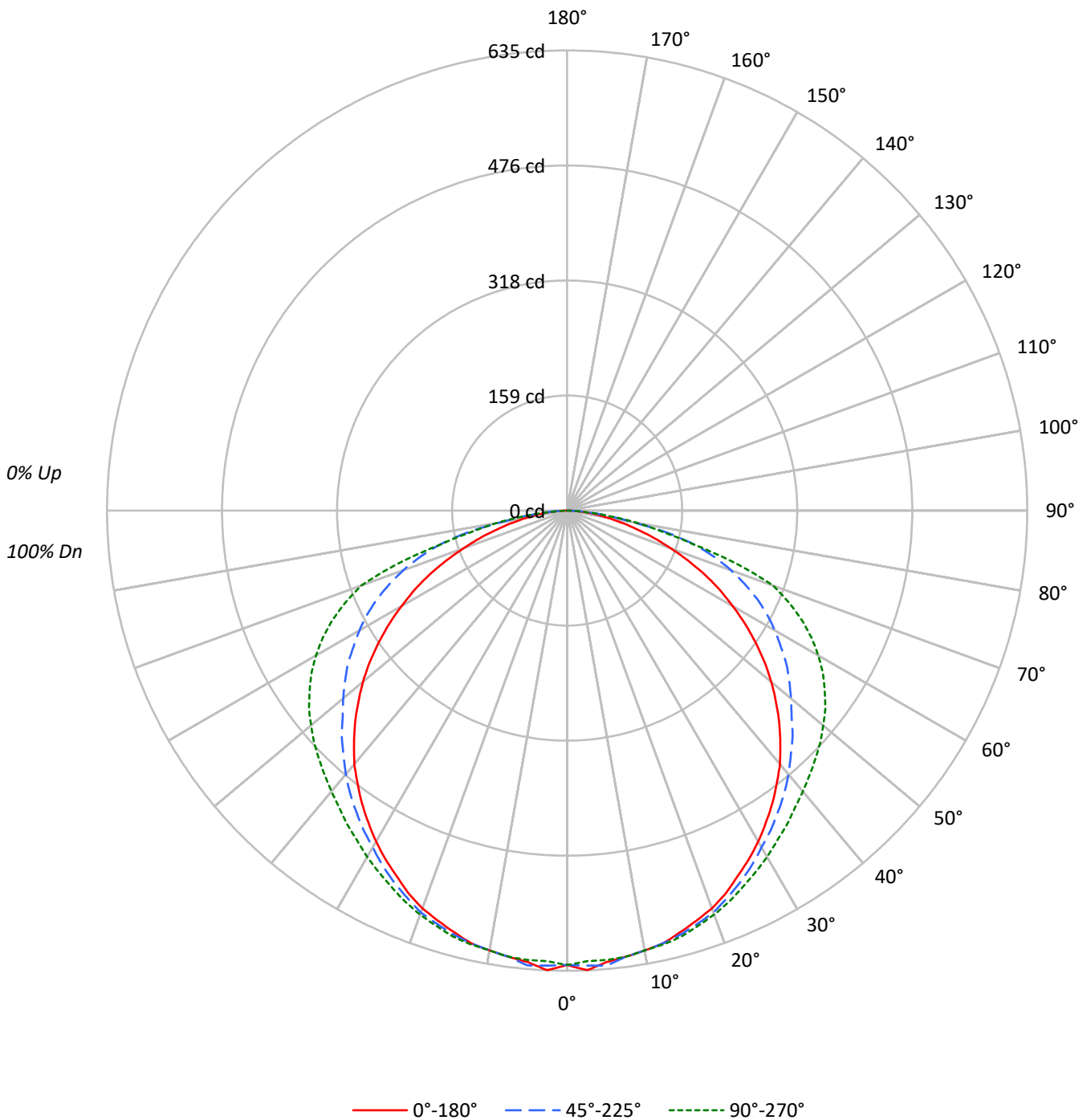
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260303

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P260303

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-2700K

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°	1687	1687	1687
5°	1690	1702	1681
10°	1684	1684	1684
15°	1679	1687	1696
20°	1673	1690	1699
25°	1652	1680	1702
30°	1639	1667	1715
35°	1622	1667	1737
40°	1605	1669	1777
45°	1575	1674	1843
50°	1540	1688	1932
55°	1489	1734	2035
60°	1419	1782	2153
65°	1337	1845	2274
70°	1194	1894	2376
75°	1036	1896	1881
80°	879	1401	1520
85°	756	948	852



TEST NUMBER: P260303

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.0
10°-20°	171.0	8.7
20°-30°	260.5	13.2
30°-40°	318.8	16.1
40°-50°	343.0	17.4
50°-60°	332.2	16.8
60°-70°	281.4	14.3
70°-80°	170.1	8.6
80°-90°	37.4	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°	491.0	24.9
0°-40°	809.8	41.0
0°-60°	1485.0	75.2
0°-90°	1974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	626	630	627	622	59
15°	602	604	606	607	609	170
25°	556	560	566	570	573	257
35°	494	497	507	521	529	309
45°	414	422	440	468	484	319
55°	317	331	370	412	434	283
65°	210	233	290	336	357	207
75°	100	135	182	186	181	107
85°	24	29	31	29	28	28
90°	0	0	0	0	0	



TEST NUMBER: P260303

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.0	627.0	627.0	627.0	627.0
2.5°	634.7	633.1	628.5	625.5	622.4
5°	625.5	625.5	630.1	627.0	622.4
7.5°	620.9	620.9	620.9	628.5	620.9
10°	616.3	617.8	616.3	622.4	616.3
12.5°	611.7	611.7	611.7	613.2	613.2
15°	602.5	604.0	605.5	607.1	608.6
17.5°	593.3	594.8	597.9	599.4	600.9
20°	584.1	585.6	590.2	590.2	593.3
22.5°	571.8	571.8	577.9	579.5	584.1
25°	556.5	559.5	565.7	570.3	573.3
27.5°	542.7	545.7	551.9	558.0	562.6
30°	527.4	530.4	536.5	545.7	551.9
32.5°	510.5	513.6	522.8	533.5	539.6
35°	493.6	496.7	507.4	521.2	528.9
37.5°	475.2	479.8	492.1	507.4	516.6
40°	456.8	461.4	475.2	492.1	505.9
42.5°	435.4	441.5	456.8	479.8	495.2
45°	413.9	421.6	440.0	467.6	484.4
47.5°	390.9	398.6	420.0	455.3	473.7
50°	367.9	377.1	403.2	441.5	461.4
52.5°	343.4	352.6	386.3	427.7	449.2
55°	317.3	331.1	369.5	412.4	433.8
57.5°	291.3	306.6	349.5	395.5	418.5
60°	263.7	282.1	331.1	377.1	400.1
62.5°	237.6	257.5	311.2	357.2	380.2
65°	210.0	233.0	289.7	335.7	357.2
67.5°	180.9	210.0	265.2	309.7	331.1
70°	151.8	185.5	240.7	282.1	302.0
72.5°	125.7	161.0	213.1	248.3	248.3
75°	99.6	134.9	182.4	185.5	180.9
77.5°	76.6	110.4	142.6	130.3	133.4
80°	56.7	84.3	90.4	95.0	98.1
82.5°	38.3	56.7	58.3	61.3	61.3
85°	24.5	29.1	30.7	29.1	27.6
87.5°	10.7	12.3	9.2	6.1	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)