

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: P260358

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260358
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-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753.0 lumens
Efficiency: N/A
Efficacy: 69.0 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

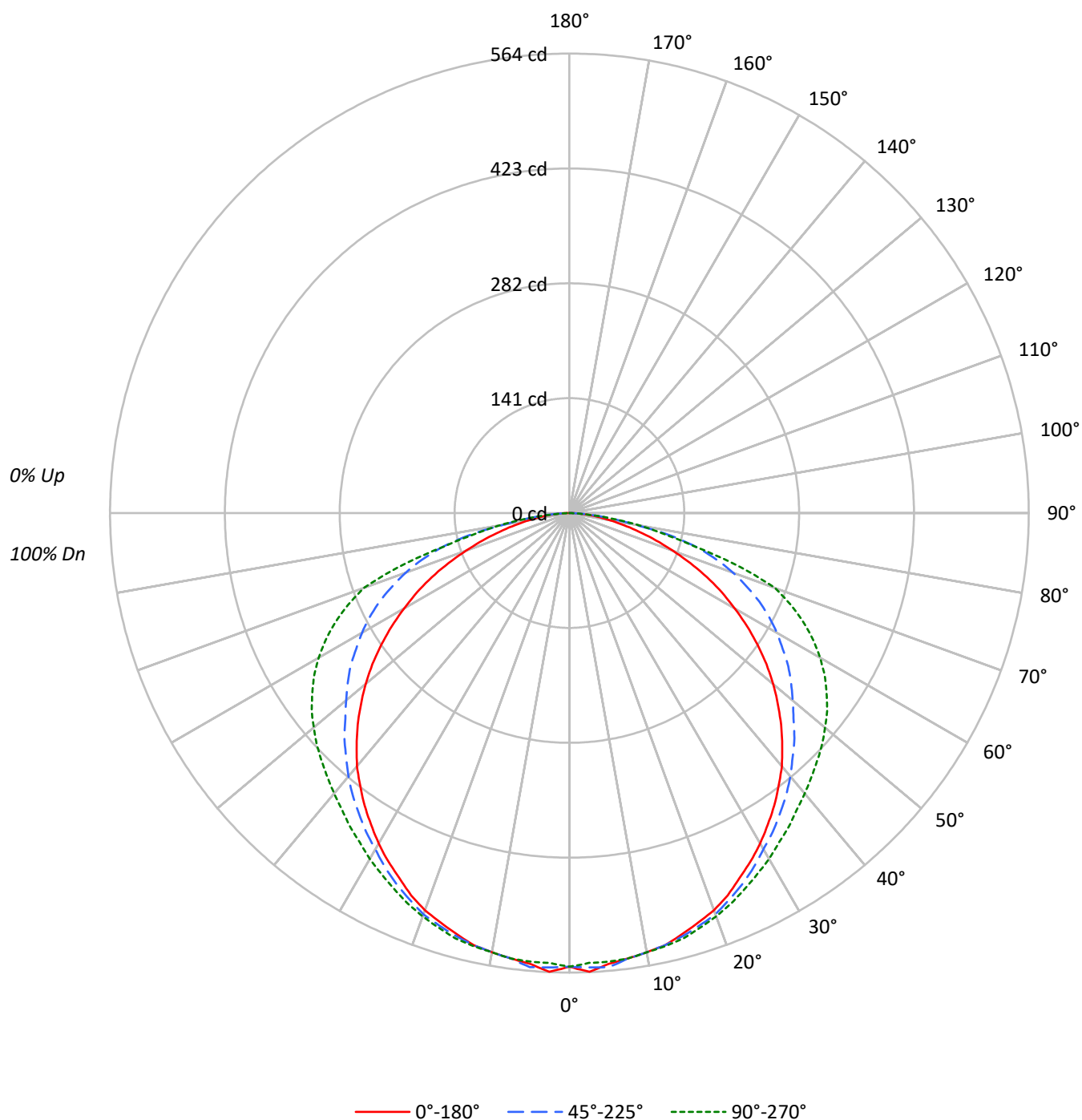
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260358

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260358

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1498	1498	1498
5°	1500	1511	1493
10°	1495	1495	1495
15°	1490	1498	1506
20°	1485	1501	1509
25°	1467	1491	1512
30°	1455	1481	1523
35°	1440	1480	1543
40°	1425	1482	1578
45°	1399	1487	1637
50°	1368	1499	1716
55°	1322	1539	1808
60°	1260	1583	1912
65°	1188	1638	2020
70°	1061	1681	2110
75°	920	1684	1670
80°	781	1244	1350
85°	673	840	756



TEST NUMBER: P260358

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.0
10°-20°	151.8	8.7
20°-30°	231.4	13.2
30°-40°	283.1	16.1
40°-50°	304.6	17.4
50°-60°	295.1	16.8
60°-70°	249.9	14.3
70°-80°	151.1	8.6
80°-90°	33.2	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°	436.0	24.9
0°-40°	719.1	41.0
0°-60°	1318.8	75.2
0°-90°	1753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	555	555	560	557	553	53
15°	535	536	538	539	540	151
25°	494	497	502	506	509	228
35°	438	441	451	463	470	274
45°	368	374	391	415	430	283
55°	282	294	328	366	385	252
65°	186	207	257	298	317	184
75°	88	120	162	165	161	95
85°	22	26	27	26	24	25
90°	0	0	0	0	0	



TEST NUMBER: P260358

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.8	556.8	556.8	556.8	556.8
2.5°	563.6	562.2	558.2	555.4	552.7
5°	555.4	555.4	559.5	556.8	552.7
7.5°	551.4	551.4	551.4	558.2	551.4
10°	547.3	548.6	547.3	552.7	547.3
12.5°	543.2	543.2	543.2	544.5	544.5
15°	535.0	536.4	537.7	539.1	540.5
17.5°	526.8	528.2	530.9	532.3	533.7
20°	518.7	520.0	524.1	524.1	526.8
22.5°	507.8	507.8	513.2	514.6	518.7
25°	494.2	496.9	502.3	506.4	509.2
27.5°	481.9	484.6	490.1	495.5	499.6
30°	468.3	471.0	476.5	484.6	490.1
32.5°	453.3	456.1	464.2	473.8	479.2
35°	438.4	441.1	450.6	462.9	469.7
37.5°	422.0	426.1	437.0	450.6	458.8
40°	405.7	409.8	422.0	437.0	449.3
42.5°	386.6	392.1	405.7	426.1	439.7
45°	367.6	374.4	390.7	415.2	430.2
47.5°	347.1	354.0	373.0	404.3	420.7
50°	326.7	334.9	358.0	392.1	409.8
52.5°	304.9	313.1	343.1	379.8	398.9
55°	281.8	294.1	328.1	366.2	385.3
57.5°	258.7	272.3	310.4	351.2	371.7
60°	234.2	250.5	294.1	334.9	355.3
62.5°	211.0	228.7	276.4	317.2	337.6
65°	186.5	206.9	257.3	298.1	317.2
67.5°	160.6	186.5	235.5	275.0	294.1
70°	134.8	164.7	213.7	250.5	268.2
72.5°	111.6	142.9	189.2	220.5	220.5
75°	88.5	119.8	162.0	164.7	160.6
77.5°	68.1	98.0	126.6	115.7	118.4
80°	50.4	74.9	80.3	84.4	87.1
82.5°	34.0	50.4	51.7	54.5	54.5
85°	21.8	25.9	27.2	25.9	24.5
87.5°	9.5	10.9	8.2	5.4	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)