

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: P260360

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260360
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1900.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

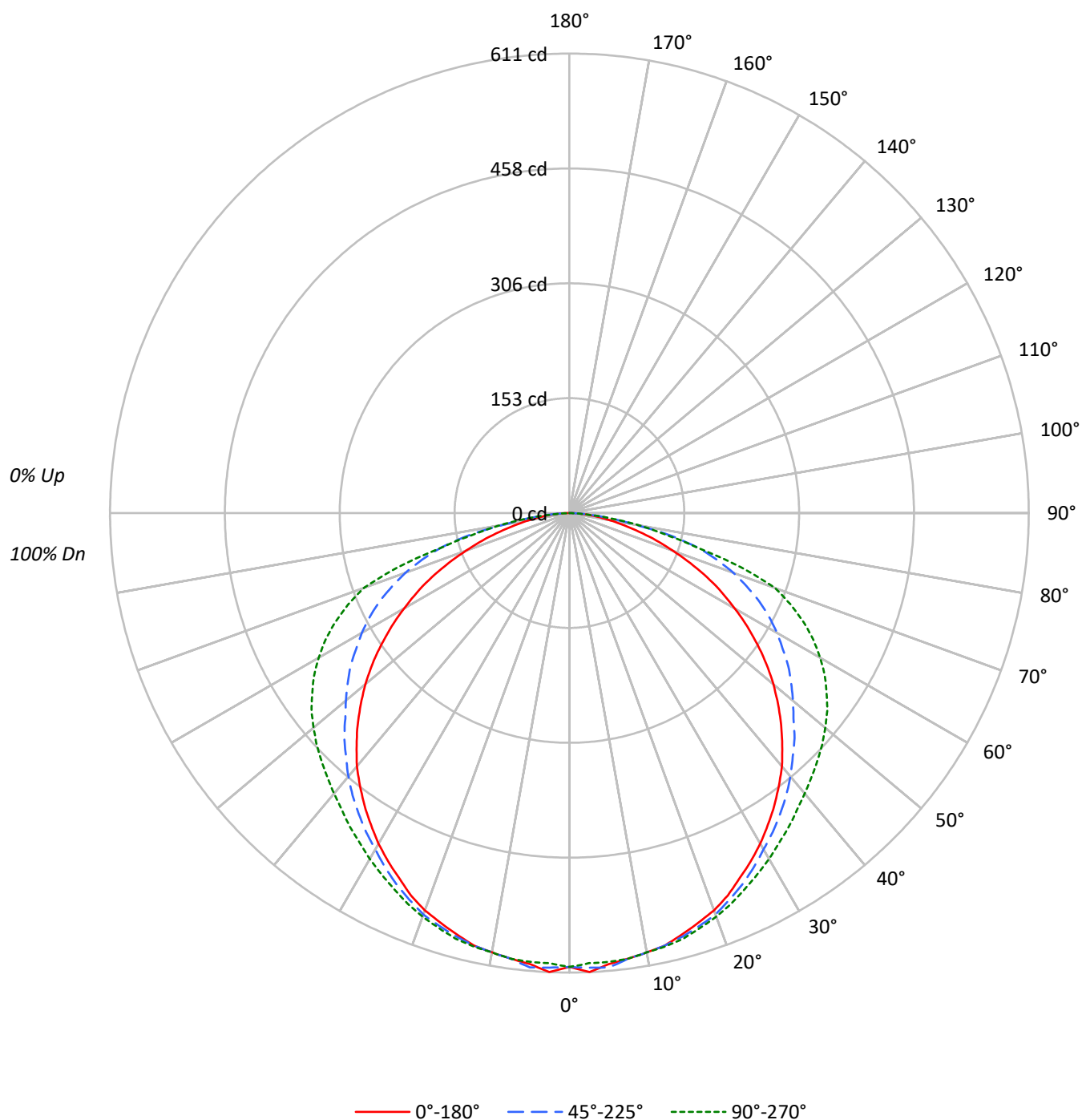
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260360

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P260360

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1624	1624	1624
5°	1626	1638	1618
10°	1621	1621	1621
15°	1616	1624	1632
20°	1610	1627	1635
25°	1590	1617	1638
30°	1577	1605	1651
35°	1561	1604	1672
40°	1545	1607	1710
45°	1516	1612	1775
50°	1482	1625	1859
55°	1433	1668	1959
60°	1366	1715	2073
65°	1287	1776	2189
70°	1149	1823	2287
75°	997	1826	1810
80°	846	1350	1463
85°	729	911	821



TEST NUMBER: P260360

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.0
10°-20°	164.6	8.7
20°-30°	250.8	13.2
30°-40°	306.8	16.1
40°-50°	330.1	17.4
50°-60°	319.8	16.8
60°-70°	270.9	14.3
70°-80°	163.7	8.6
80°-90°	36.0	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°	472.6	24.9
0°-40°	779.4	41.0
0°-60°	1429.4	75.2
0°-90°	1900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	602	602	606	604	599	57
15°	580	581	583	584	586	164
25°	536	539	544	549	552	247
35°	475	478	488	502	509	297
45°	398	406	424	450	466	307
55°	305	319	356	397	418	273
65°	202	224	279	323	344	199
75°	96	130	176	178	174	103
85°	24	28	30	28	27	27
90°	0	0	0	0	0	



TEST NUMBER: P260360

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.5	603.5	603.5	603.5	603.5
2.5°	610.9	609.4	605.0	602.0	599.1
5°	602.0	602.0	606.4	603.5	599.1
7.5°	597.6	597.6	597.6	605.0	597.6
10°	593.2	594.6	593.2	599.1	593.2
12.5°	588.7	588.7	588.7	590.2	590.2
15°	579.9	581.4	582.8	584.3	585.8
17.5°	571.0	572.5	575.5	576.9	578.4
20°	562.2	563.7	568.1	568.1	571.0
22.5°	550.4	550.4	556.3	557.7	562.2
25°	535.6	538.6	544.5	548.9	551.8
27.5°	522.3	525.3	531.2	537.1	541.5
30°	507.6	510.5	516.4	525.3	531.2
32.5°	491.4	494.3	503.2	513.5	519.4
35°	475.1	478.1	488.4	501.7	509.1
37.5°	457.4	461.8	473.6	488.4	497.3
40°	439.7	444.1	457.4	473.6	486.9
42.5°	419.0	425.0	439.7	461.8	476.6
45°	398.4	405.8	423.5	450.0	466.3
47.5°	376.3	383.6	404.3	438.2	455.9
50°	354.1	363.0	388.1	425.0	444.1
52.5°	330.5	339.4	371.8	411.7	432.3
55°	305.4	318.7	355.6	396.9	417.6
57.5°	280.4	295.1	336.4	380.7	402.8
60°	253.8	271.5	318.7	363.0	385.1
62.5°	228.7	247.9	299.5	343.8	365.9
65°	202.1	224.3	278.9	323.1	343.8
67.5°	174.1	202.1	255.3	298.1	318.7
70°	146.1	178.5	231.7	271.5	290.7
72.5°	121.0	154.9	205.1	239.0	239.0
75°	95.9	129.8	175.6	178.5	174.1
77.5°	73.8	106.2	137.2	125.4	128.4
80°	54.6	81.2	87.1	91.5	94.4
82.5°	36.9	54.6	56.1	59.0	59.0
85°	23.6	28.0	29.5	28.0	26.6
87.5°	10.3	11.8	8.9	5.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)