

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: P259353

Luminaire Tested: **22CZ-LD5-34-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3113.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

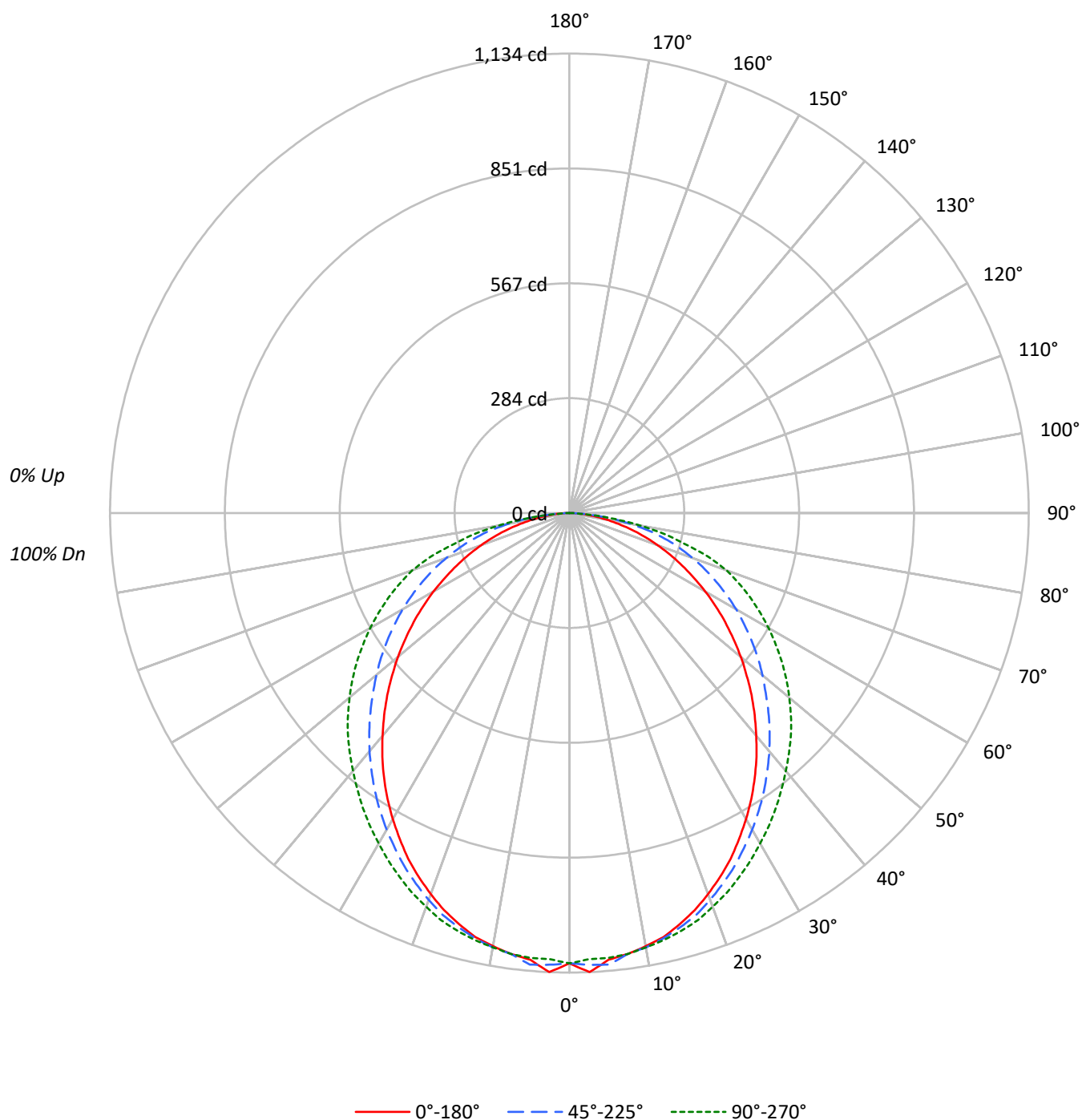
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259353

CATALOG NUMBER: 22CZ-LD5-34-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P259353

CATALOG NUMBER: 22CZ-LD5-34-UNV-L92765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2990	2990	2990
5°	2989	3022	2977
10°	2966	2974	2974
15°	2927	2948	2973
20°	2865	2909	2961
25°	2796	2859	2944
30°	2710	2803	2926
35°	2621	2750	2919
40°	2520	2696	2920
45°	2420	2644	2944
50°	2313	2605	2966
55°	2202	2578	3004
60°	2086	2558	3055
65°	1957	2544	3133
70°	1822	2537	3240
75°	1652	2534	3069
80°	1430	2346	2721
85°	1216	1775	1729



TEST NUMBER: P259353

CATALOG NUMBER: 22CZ-LD5-34-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.4
10°-20°	298.5	9.6
20°-30°	444.1	14.3
30°-40°	525.2	16.9
40°-50°	539.8	17.3
50°-60°	493.3	15.8
60°-70°	394.6	12.7
70°-80°	247.6	8.0
80°-90°	64.5	2.1
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°	848.0	27.2
0°-40°	1373.2	44.1
0°-60°	2406.3	77.3
0°-90°	3113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1107	1107	1119	1111	1102	105
15°	1051	1052	1058	1064	1067	296
25°	942	948	963	979	992	433
35°	798	808	837	869	889	499
45°	636	652	695	746	774	490
55°	469	492	550	610	640	420
65°	307	335	400	460	492	305
75°	159	189	244	280	295	169
85°	39	50	58	56	56	46
90°	0	0	0	0	0	



TEST NUMBER: P259353

CATALOG NUMBER: 22CZ-LD5-34-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.1	1111.1	1111.1	1111.1	1111.1
2.5°	1133.8	1129.3	1115.7	1106.6	1102.1
5°	1106.6	1106.6	1118.7	1111.1	1102.1
7.5°	1097.5	1097.5	1097.5	1120.2	1097.5
10°	1085.4	1086.9	1088.4	1097.5	1088.4
12.5°	1071.8	1071.8	1074.8	1077.8	1079.3
15°	1050.6	1052.1	1058.2	1064.2	1067.2
17.5°	1027.9	1032.4	1040.0	1047.6	1053.6
20°	1000.6	1006.7	1015.8	1027.9	1033.9
22.5°	971.9	977.9	990.0	1003.7	1014.3
25°	941.6	947.6	962.8	979.4	991.5
27.5°	906.8	914.3	932.5	955.2	967.3
30°	872.0	881.0	902.2	928.0	941.6
32.5°	835.6	846.2	870.4	899.2	915.9
35°	797.8	808.4	837.1	868.9	888.6
37.5°	758.4	770.5	802.3	838.6	859.8
40°	717.5	731.2	767.5	806.9	831.1
42.5°	676.7	691.8	731.2	778.1	802.3
45°	635.8	652.5	694.8	746.3	773.6
47.5°	593.4	613.1	657.0	714.5	741.8
50°	552.5	572.2	622.2	681.2	708.5
52.5°	510.2	532.9	585.8	646.4	675.2
55°	469.3	492.0	549.5	610.1	640.3
57.5°	428.4	451.1	511.7	573.7	604.0
60°	387.5	411.8	475.3	535.9	567.7
62.5°	346.7	372.4	437.5	499.6	529.8
65°	307.3	334.6	399.6	460.2	492.0
67.5°	269.5	298.2	361.8	420.8	452.6
70°	231.6	260.4	322.4	380.0	411.8
72.5°	195.3	224.0	284.6	336.1	360.3
75°	158.9	189.2	243.7	280.1	295.2
77.5°	124.1	154.4	201.3	225.6	242.2
80°	92.3	118.1	151.4	169.5	175.6
82.5°	63.6	84.8	106.0	110.5	113.5
85°	39.4	50.0	57.5	56.0	56.0
87.5°	18.2	19.7	16.7	12.1	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)