

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: P259497

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2077.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

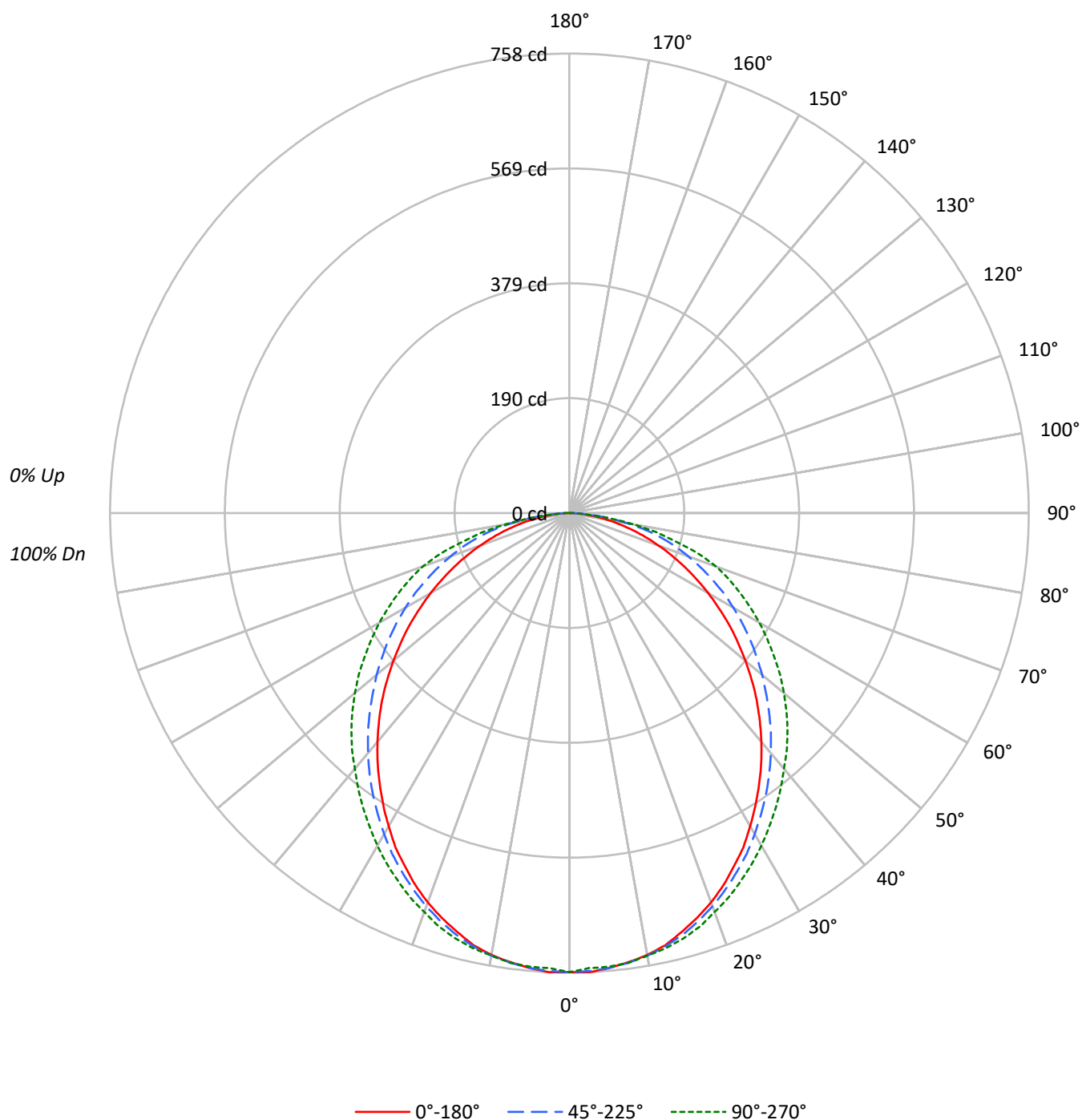
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259497

CATALOG NUMBER: 22CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P259497

CATALOG NUMBER: 22CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2038	2038	2038
5°	2035	2035	2029
10°	2023	2025	2025
15°	1993	2007	2023
20°	1957	1977	2005
25°	1908	1940	1988
30°	1854	1900	1968
35°	1793	1858	1950
40°	1731	1815	1935
45°	1663	1773	1936
50°	1587	1737	1934
55°	1512	1708	1933
60°	1423	1681	1949
65°	1334	1658	1976
70°	1232	1640	2025
75°	1109	1628	1878
80°	973	1516	1638
85°	800	1139	1016



TEST NUMBER: P259497

CATALOG NUMBER: 22CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.4
10°-20°	203.1	9.8
20°-30°	301.7	14.5
30°-40°	355.1	17.1
40°-50°	362.0	17.4
50°-60°	326.5	15.7
60°-70°	257.2	12.4
70°-80°	158.6	7.6
80°-90°	41.2	2.0
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°	576.3	27.7
0°-40°	931.4	44.8
0°-60°	1620.0	78.0
0°-90°	2077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	753	754	753	752	751	71
15°	715	718	720	724	726	202
25°	642	646	653	664	669	296
35°	546	552	566	584	594	341
45°	437	444	466	494	509	337
55°	322	333	364	397	412	288
65°	210	224	260	293	310	208
75°	107	125	157	175	181	114
85°	26	33	37	35	33	31
90°	0	0	0	0	0	



TEST NUMBER: P259497

CATALOG NUMBER: 22CZ-LD5-20-S-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.2	757.2	757.2	757.2	757.2
2.5°	758.2	758.2	756.2	754.2	751.2
5°	753.2	754.2	753.2	752.2	751.2
7.5°	747.2	748.2	748.2	748.2	748.2
10°	740.2	741.2	741.2	741.2	741.2
12.5°	730.3	731.3	732.2	733.2	735.2
15°	715.3	718.3	720.3	724.3	726.3
17.5°	700.3	703.3	706.3	711.3	715.3
20°	683.4	685.4	690.3	696.3	700.3
22.5°	664.4	667.4	672.4	680.4	686.4
25°	642.5	646.5	653.4	664.4	669.4
27.5°	621.5	624.5	633.5	645.5	652.4
30°	596.6	600.6	611.5	626.5	633.5
32.5°	571.6	576.6	588.6	605.6	613.5
35°	545.7	551.7	565.6	583.6	593.6
37.5°	519.8	525.7	541.7	561.7	572.6
40°	492.8	498.8	516.8	538.7	550.7
42.5°	464.9	471.9	491.8	516.8	530.7
45°	437.0	443.9	465.9	493.8	508.8
47.5°	408.0	416.0	439.9	470.9	485.8
50°	379.1	388.1	415.0	446.9	461.9
52.5°	350.2	360.1	389.1	422.0	438.0
55°	322.2	333.2	364.1	397.1	412.0
57.5°	292.3	305.3	338.2	370.1	387.1
60°	264.4	278.3	312.3	344.2	362.1
62.5°	236.4	251.4	287.3	319.2	336.2
65°	209.5	224.5	260.4	293.3	310.3
67.5°	182.6	199.5	234.4	267.4	284.3
70°	156.6	174.6	208.5	240.4	257.4
72.5°	131.7	149.6	183.6	213.5	223.5
75°	106.7	124.7	156.6	174.6	180.6
77.5°	83.8	100.8	128.7	139.7	147.6
80°	62.8	77.8	97.8	104.7	105.7
82.5°	42.9	55.9	67.8	68.8	67.8
85°	25.9	32.9	36.9	34.9	32.9
87.5°	12.0	13.0	12.0	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)