

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: P259328

Luminaire Tested: **22CZ-LD5-20-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259328
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-LD5-20-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2028.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

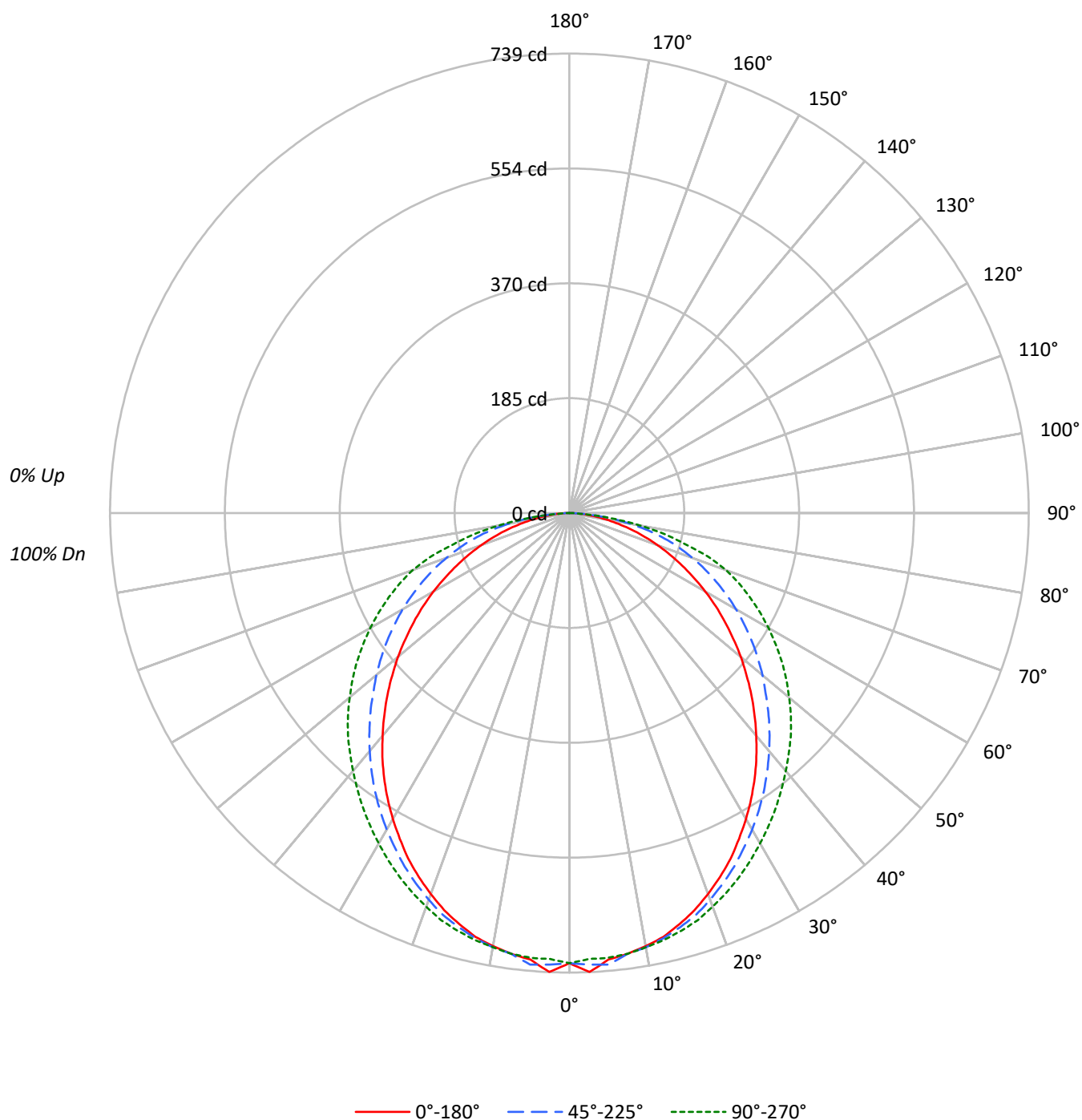
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1947	1969	1939
10°	1932	1938	1938
15°	1907	1920	1937
20°	1867	1895	1929
25°	1821	1862	1918
30°	1765	1826	1906
35°	1707	1792	1902
40°	1642	1756	1902
45°	1576	1723	1918
50°	1507	1697	1932
55°	1434	1680	1957
60°	1359	1667	1990
65°	1275	1658	2041
70°	1187	1653	2110
75°	1076	1651	1999
80°	933	1528	1773
85°	790	1158	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.4
10°-20°	194.5	9.6
20°-30°	289.3	14.3
30°-40°	342.2	16.9
40°-50°	351.7	17.3
50°-60°	321.3	15.8
60°-70°	257.1	12.7
70°-80°	161.3	8.0
80°-90°	42.0	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°	552.4	27.2
0°-40°	894.6	44.1
0°-60°	1567.6	77.3
0°-90°	2028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	721	721	729	724	718	69
15°	684	685	689	693	695	193
25°	613	617	627	638	646	282
35°	520	527	545	566	579	325
45°	414	425	453	486	504	319
55°	306	320	358	397	417	273
65°	200	218	260	300	320	199
75°	104	123	159	182	192	110
85°	26	32	38	36	36	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.9	723.9	723.9	723.9	723.9
2.5°	738.7	735.7	726.8	720.9	717.9
5°	720.9	720.9	728.8	723.9	717.9
7.5°	715.0	715.0	715.0	729.8	715.0
10°	707.1	708.1	709.1	715.0	709.1
12.5°	698.2	698.2	700.2	702.2	703.2
15°	684.4	685.4	689.3	693.3	695.3
17.5°	669.6	672.6	677.5	682.4	686.4
20°	651.9	655.8	661.7	669.6	673.6
22.5°	633.1	637.1	645.0	653.8	660.7
25°	613.4	617.4	627.2	638.1	646.0
27.5°	590.7	595.7	607.5	622.3	630.2
30°	568.0	574.0	587.8	604.5	613.4
32.5°	544.4	551.3	567.1	585.8	596.6
35°	519.7	526.6	545.4	566.1	578.9
37.5°	494.1	502.0	522.7	546.3	560.2
40°	467.5	476.3	500.0	525.6	541.4
42.5°	440.8	450.7	476.3	506.9	522.7
45°	414.2	425.0	452.7	486.2	503.9
47.5°	386.6	399.4	428.0	465.5	483.2
50°	360.0	372.8	405.3	443.8	461.5
52.5°	332.3	347.1	381.7	421.1	439.8
55°	305.7	320.5	358.0	397.4	417.2
57.5°	279.1	293.9	333.3	373.8	393.5
60°	252.5	268.2	309.7	349.1	369.8
62.5°	225.8	242.6	285.0	325.4	345.2
65°	200.2	217.9	260.4	299.8	320.5
67.5°	175.5	194.3	235.7	274.2	294.9
70°	150.9	169.6	210.1	247.5	268.2
72.5°	127.2	146.0	185.4	218.9	234.7
75°	103.5	123.3	158.8	182.4	192.3
77.5°	80.9	100.6	131.2	146.9	157.8
80°	60.2	76.9	98.6	110.5	114.4
82.5°	41.4	55.2	69.0	72.0	74.0
85°	25.6	32.5	37.5	36.5	36.5
87.5°	11.8	12.8	10.8	7.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)