

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: P259498

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259498
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

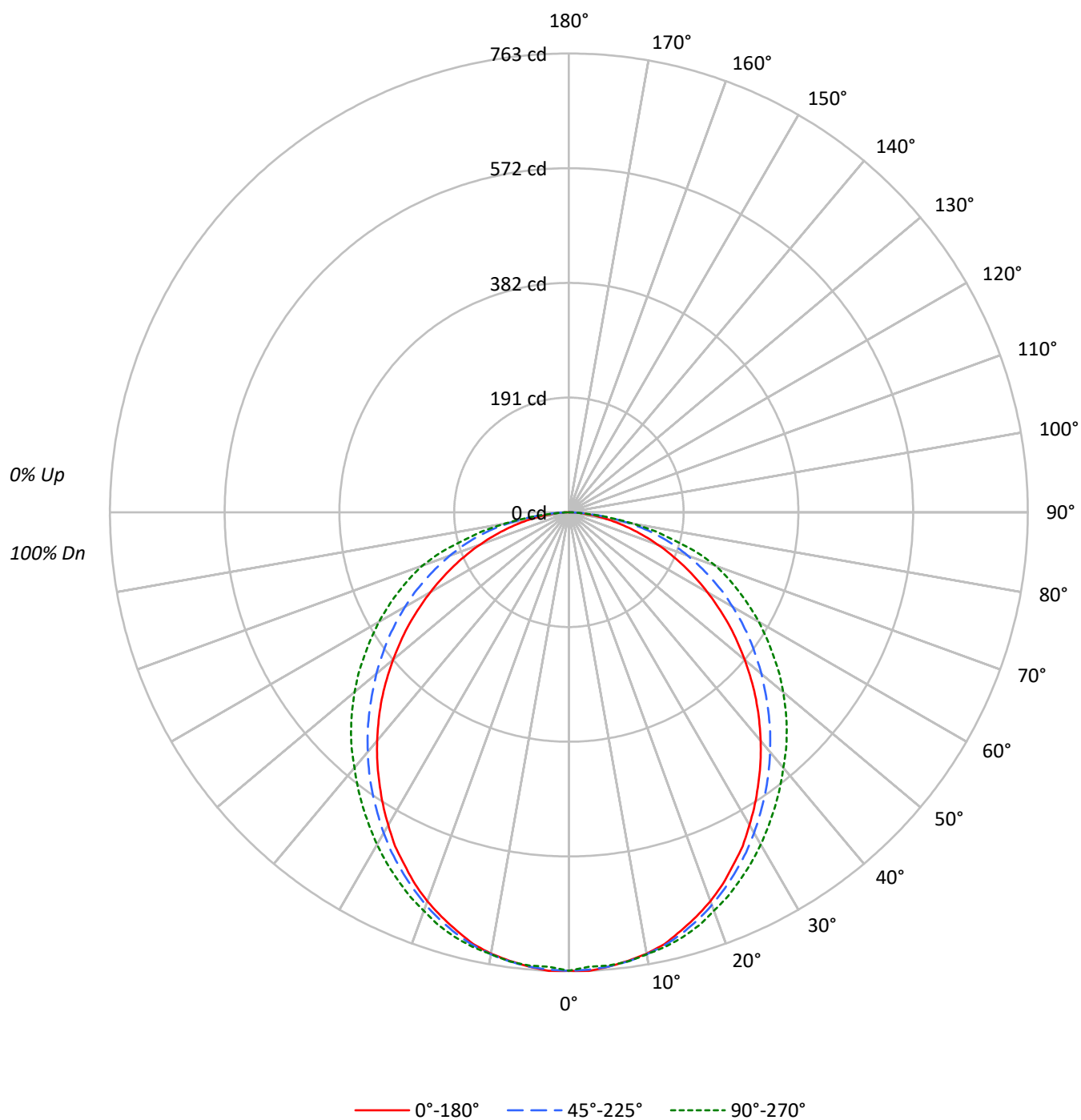
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	0		
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°	2051	2051	2051
5°	2048	2048	2043
10°	2036	2039	2039
15°	2006	2020	2037
20°	1970	1990	2019
25°	1920	1953	2001
30°	1866	1913	1982
35°	1805	1871	1963
40°	1743	1827	1948
45°	1674	1785	1949
50°	1598	1749	1947
55°	1522	1720	1946
60°	1432	1692	1962
65°	1343	1669	1989
70°	1241	1651	2039
75°	1118	1640	1890
80°	981	1525	1650
85°	806	1149	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	204.5	9.8
20°-30°	303.7	14.5
30°-40°	357.5	17.1
40°-50°	364.5	17.4
50°-60°	328.7	15.7
60°-70°	258.9	12.4
70°-80°	159.7	7.6
80°-90°	41.5	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°	580.2	27.7
0°-40°	937.7	44.8
0°-60°	1630.9	78.0
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	758	759	758	757	756	72
15°	720	723	725	729	731	203
25°	647	651	658	669	674	298
35°	549	555	570	588	598	344
45°	440	447	469	497	512	339
55°	324	335	367	400	415	289
65°	211	226	262	295	312	209
75°	108	126	158	176	182	115
85°	26	33	37	35	33	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.3	762.3	762.3	762.3	762.3
2.5°	763.3	763.3	761.3	759.3	756.3
5°	758.3	759.3	758.3	757.3	756.3
7.5°	752.2	753.3	753.3	753.3	753.3
10°	745.2	746.2	746.2	746.2	746.2
12.5°	735.2	736.2	737.2	738.2	740.2
15°	720.1	723.1	725.1	729.1	731.2
17.5°	705.0	708.1	711.1	716.1	720.1
20°	688.0	690.0	695.0	701.0	705.0
22.5°	668.9	671.9	676.9	685.0	691.0
25°	646.8	650.8	657.8	668.9	673.9
27.5°	625.7	628.7	637.8	649.8	656.8
30°	600.6	604.6	615.7	630.7	637.8
32.5°	575.5	580.5	592.6	609.6	617.7
35°	549.4	555.4	569.5	587.5	597.6
37.5°	523.3	529.3	545.4	565.4	576.5
40°	496.1	502.2	520.2	542.3	554.4
42.5°	468.0	475.1	495.1	520.2	534.3
45°	439.9	446.9	469.0	497.1	512.2
47.5°	410.8	418.8	442.9	474.0	489.1
50°	381.6	390.7	417.8	449.9	465.0
52.5°	352.5	362.6	391.7	424.8	440.9
55°	324.4	335.4	366.6	399.7	414.8
57.5°	294.3	307.3	340.5	372.6	389.7
60°	266.1	280.2	314.4	346.5	364.6
62.5°	238.0	253.1	289.2	321.4	338.5
65°	210.9	226.0	262.1	295.3	312.3
67.5°	183.8	200.9	236.0	269.2	286.2
70°	157.7	175.8	209.9	242.0	259.1
72.5°	132.6	150.7	184.8	214.9	225.0
75°	107.5	125.5	157.7	175.8	181.8
77.5°	84.4	101.4	129.6	140.6	148.6
80°	63.3	78.3	98.4	105.5	106.5
82.5°	43.2	56.2	68.3	69.3	68.3
85°	26.1	33.1	37.2	35.2	33.1
87.5°	12.1	13.1	12.1	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)