

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: P260467

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2163.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

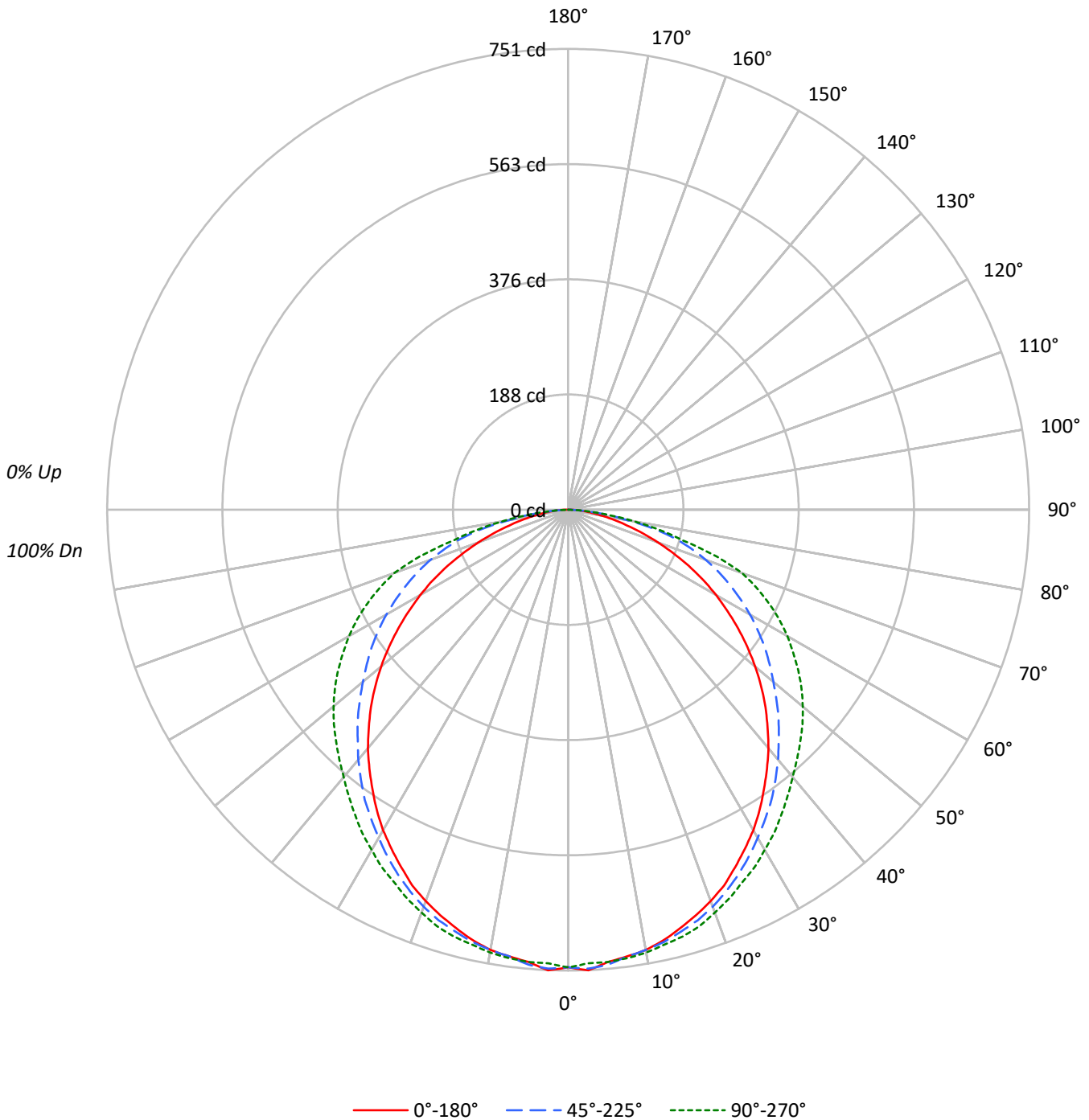
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2007	2007	2007
5°	1999	2011	1999
10°	1991	1991	2003
15°	1966	1982	2006
20°	1944	1972	2001
25°	1909	1947	1990
30°	1874	1918	1989
35°	1827	1897	1991
40°	1783	1868	1998
45°	1731	1845	2035
50°	1665	1827	2089
55°	1585	1833	2147
60°	1496	1842	2218
65°	1380	1852	2297
70°	1223	1873	2367
75°	1038	1868	2016
80°	862	1503	1680
85°	747	1013	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.3
10°-20°	201.0	9.3
20°-30°	302.4	14.0
30°-40°	362.3	16.8
40°-50°	377.9	17.5
50°-60°	351.8	16.3
60°-70°	285.6	13.2
70°-80°	172.1	8.0
80°-90°	39.5	1.8
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°	573.8	26.5
0°-40°	936.1	43.3
0°-60°	1665.7	77.0
0°-90°	2163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	740	740	744	746	740	70
15°	706	709	712	716	720	199
25°	643	647	656	664	670	296
35°	556	563	578	595	606	348
45°	455	463	485	516	535	350
55°	338	352	391	434	458	302
65°	217	240	291	336	361	214
75°	100	133	180	191	194	108
85°	24	30	33	31	31	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.7	745.7	745.7	745.7	745.7
2.5°	751.4	750.0	748.6	744.3	740.0
5°	740.0	740.0	744.3	745.7	740.0
7.5°	734.3	734.3	734.3	740.0	737.2
10°	728.6	728.6	728.6	732.9	732.9
12.5°	718.6	720.1	721.5	722.9	725.8
15°	705.8	708.6	711.5	715.8	720.1
17.5°	693.0	695.8	701.5	705.8	711.5
20°	678.7	681.6	688.7	693.0	698.7
22.5°	663.0	664.4	673.0	678.7	685.8
25°	643.1	647.3	655.9	664.4	670.2
27.5°	623.1	627.4	637.4	648.8	657.3
30°	603.1	607.4	617.4	631.7	640.2
32.5°	580.3	586.0	597.4	614.5	624.5
35°	556.1	563.2	577.5	594.6	606.0
37.5°	531.8	539.0	554.7	576.0	587.5
40°	507.6	514.7	531.8	554.7	568.9
42.5°	480.5	489.1	507.6	534.7	551.8
45°	454.8	463.4	484.8	516.2	534.7
47.5°	426.3	436.3	460.6	496.2	517.6
50°	397.8	409.2	436.3	476.2	499.0
52.5°	367.9	380.7	413.5	454.8	479.1
55°	337.9	352.2	390.7	433.5	457.7
57.5°	308.0	323.7	366.4	410.6	434.9
60°	278.0	295.2	342.2	387.8	412.1
62.5°	248.1	266.6	316.5	362.2	387.8
65°	216.7	239.5	290.9	336.5	360.7
67.5°	185.4	212.5	265.2	309.4	332.2
70°	155.4	185.4	238.1	279.5	300.9
72.5°	126.9	158.3	209.6	245.2	253.8
75°	99.8	132.6	179.7	191.1	193.9
77.5°	77.0	106.9	142.6	145.4	152.6
80°	55.6	81.3	97.0	105.5	108.4
82.5°	38.5	55.6	64.2	65.6	67.0
85°	24.2	29.9	32.8	31.4	31.4
87.5°	12.8	11.4	10.0	7.1	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)