

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: P259269

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259269
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2039.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

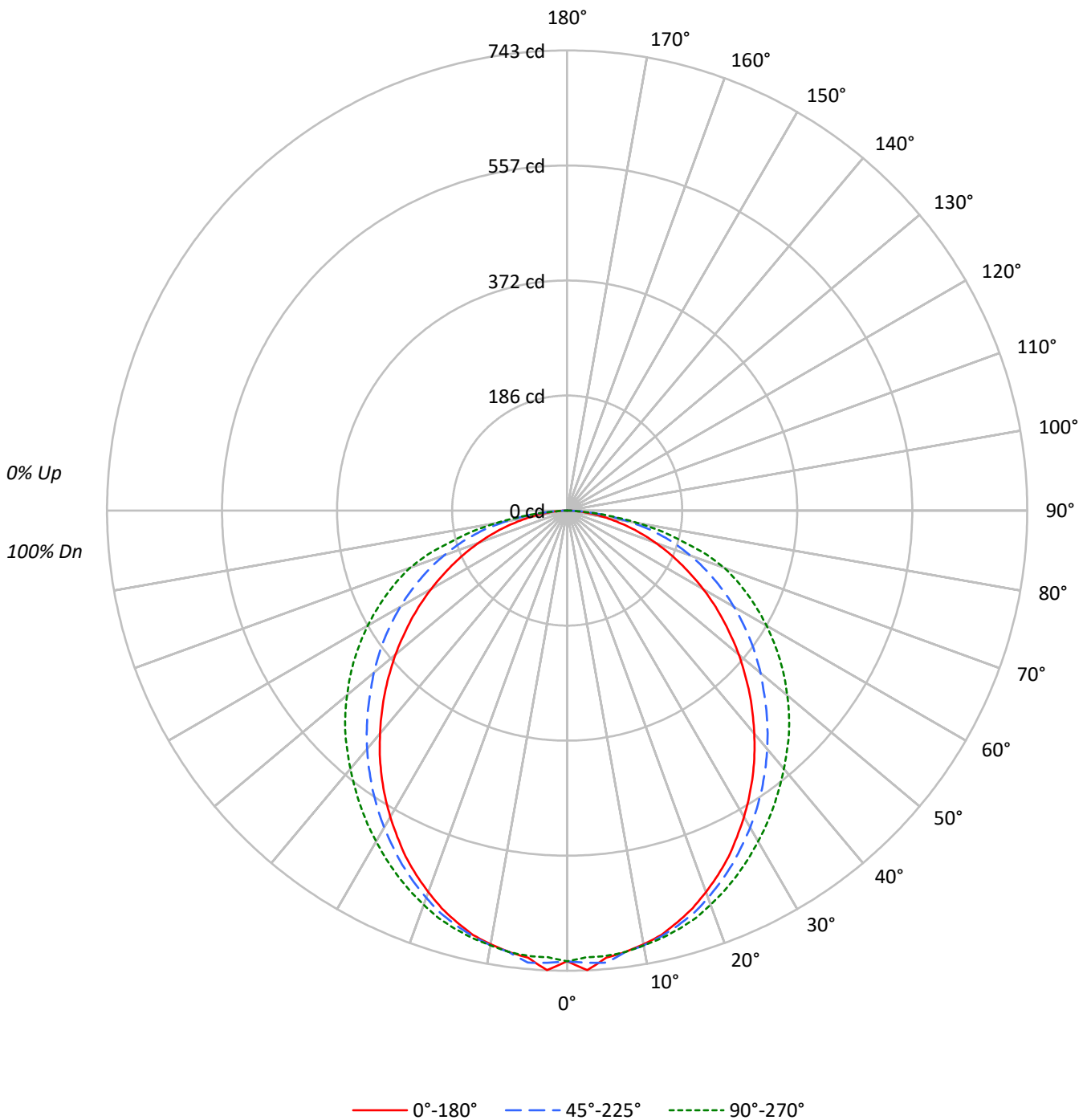
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	82	76	84	79	74	81	77	73	78	74	71	69																												
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58																												
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																												
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																												
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																												
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33																												
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																												
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26																												
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1958	1958	1958
5°	1958	1979	1950
10°	1943	1948	1948
15°	1917	1931	1947
20°	1877	1905	1939
25°	1831	1872	1928
30°	1775	1836	1916
35°	1716	1801	1912
40°	1651	1766	1912
45°	1585	1732	1928
50°	1515	1706	1942
55°	1442	1688	1968
60°	1366	1675	2001
65°	1282	1667	2052
70°	1194	1662	2122
75°	1082	1659	2010
80°	938	1537	1782
85°	797	1164	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.4
10°-20°	195.5	9.6
20°-30°	290.9	14.3
30°-40°	344.0	16.9
40°-50°	353.6	17.3
50°-60°	323.1	15.8
60°-70°	258.5	12.7
70°-80°	162.2	8.0
80°-90°	42.2	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°	555.4	27.2
0°-40°	899.4	44.1
0°-60°	1576.1	77.3
0°-90°	2039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	725	725	733	728	722	69
15°	688	689	693	697	699	194
25°	617	621	631	642	650	284
35°	522	530	548	569	582	327
45°	416	427	455	489	507	321
55°	307	322	360	400	419	275
65°	201	219	262	301	322	200
75°	104	124	160	183	193	111
85°	26	33	38	37	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.8	727.8	727.8	727.8	727.8
2.5°	742.7	739.7	730.8	724.8	721.8
5°	724.8	724.8	732.7	727.8	721.8
7.5°	718.9	718.9	718.9	733.7	718.9
10°	710.9	711.9	712.9	718.9	712.9
12.5°	702.0	702.0	704.0	706.0	707.0
15°	688.1	689.1	693.1	697.1	699.0
17.5°	673.3	676.2	681.2	686.1	690.1
20°	655.4	659.4	665.3	673.3	677.2
22.5°	636.6	640.5	648.5	657.4	664.3
25°	616.7	620.7	630.6	641.5	649.5
27.5°	593.9	598.9	610.8	625.7	633.6
30°	571.1	577.1	591.0	607.8	616.7
32.5°	547.3	554.3	570.1	589.0	599.9
35°	522.5	529.5	548.3	569.1	582.0
37.5°	496.8	504.7	525.5	549.3	563.2
40°	470.0	478.9	502.7	528.5	544.4
42.5°	443.2	453.1	478.9	509.6	525.5
45°	416.4	427.4	455.1	488.8	506.7
47.5°	388.7	401.6	430.3	468.0	485.9
50°	361.9	374.8	407.5	446.2	464.0
52.5°	334.1	349.0	383.7	423.4	442.2
55°	307.4	322.2	359.9	399.6	419.4
57.5°	280.6	295.5	335.1	375.8	395.6
60°	253.8	269.7	311.3	351.0	371.8
62.5°	227.1	243.9	286.6	327.2	347.0
65°	201.3	219.1	261.8	301.4	322.2
67.5°	176.5	195.3	237.0	275.6	296.5
70°	151.7	170.5	211.2	248.9	269.7
72.5°	127.9	146.7	186.4	220.1	236.0
75°	104.1	123.9	159.6	183.4	193.3
77.5°	81.3	101.1	131.9	147.7	158.6
80°	60.5	77.3	99.2	111.1	115.0
82.5°	41.6	55.5	69.4	72.4	74.4
85°	25.8	32.7	37.7	36.7	36.7
87.5°	11.9	12.9	10.9	7.9	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)