

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: P259344

Luminaire Tested: **22CZ-LD5-29-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259344
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-LD5-29-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2582.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

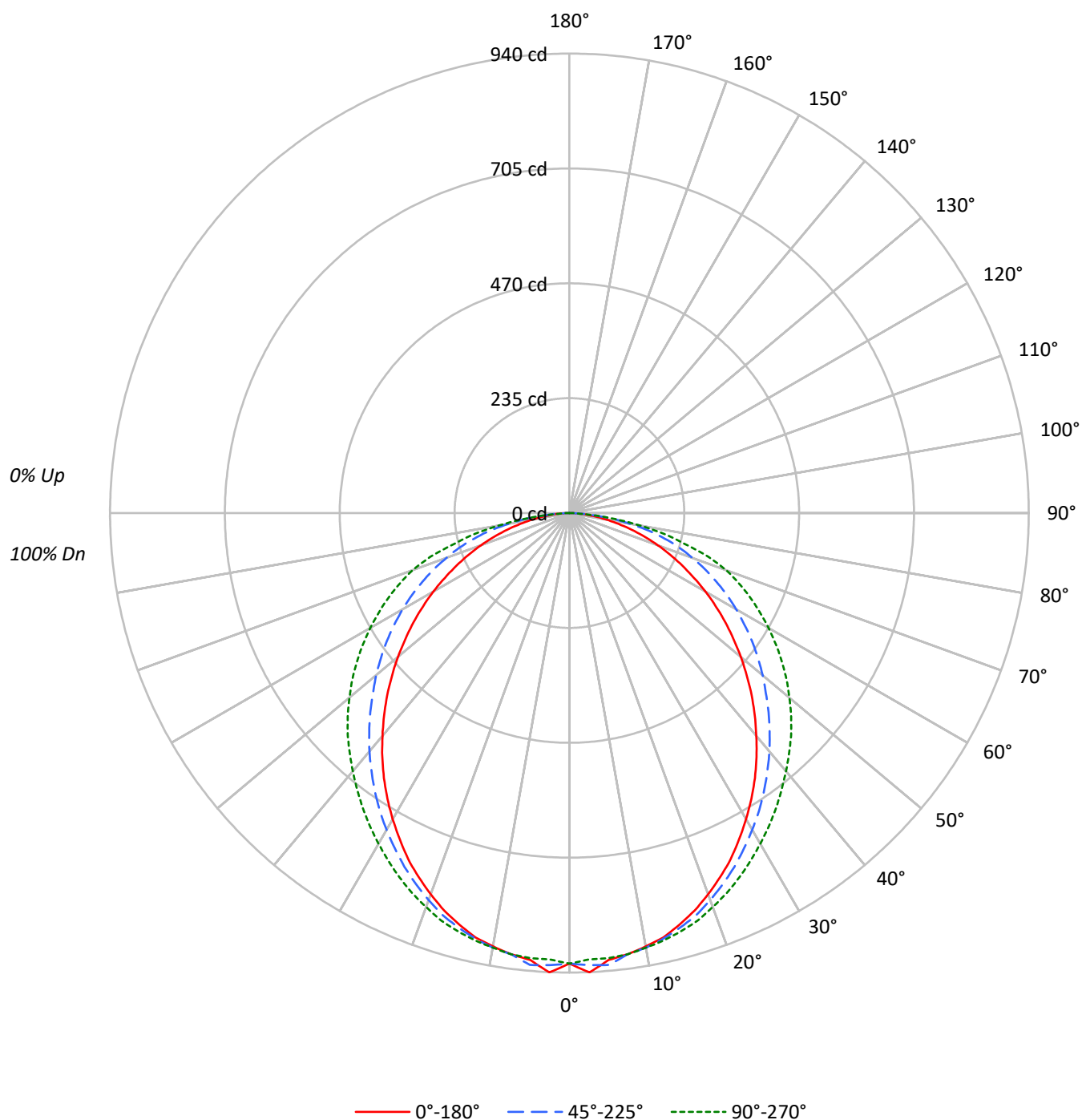
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2480	2480	2480
5°	2479	2506	2469
10°	2460	2467	2467
15°	2428	2445	2466
20°	2377	2413	2456
25°	2319	2371	2442
30°	2247	2325	2427
35°	2174	2281	2421
40°	2090	2236	2421
45°	2007	2193	2442
50°	1919	2160	2460
55°	1826	2138	2492
60°	1730	2122	2534
65°	1623	2111	2599
70°	1511	2104	2687
75°	1370	2101	2545
80°	1187	1946	2256
85°	1007	1473	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.4
10°-20°	247.6	9.6
20°-30°	368.3	14.3
30°-40°	435.6	16.9
40°-50°	447.7	17.3
50°-60°	409.1	15.8
60°-70°	327.3	12.7
70°-80°	205.4	8.0
80°-90°	53.5	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°	703.3	27.2
0°-40°	1139.0	44.1
0°-60°	1995.8	77.3
0°-90°	2582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	918	918	928	922	914	87
15°	871	873	878	883	885	245
25°	781	786	799	812	822	359
35°	662	670	694	721	737	414
45°	527	541	576	619	642	407
55°	389	408	456	506	531	348
65°	255	278	332	382	408	253
75°	132	157	202	232	245	140
85°	33	41	48	46	46	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.6	921.6	921.6	921.6	921.6
2.5°	940.4	936.7	925.4	917.8	914.1
5°	917.8	917.8	927.9	921.6	914.1
7.5°	910.3	910.3	910.3	929.1	910.3
10°	900.3	901.5	902.8	910.3	902.8
12.5°	889.0	889.0	891.5	894.0	895.2
15°	871.4	872.6	877.7	882.7	885.2
17.5°	852.5	856.3	862.6	868.9	873.9
20°	829.9	835.0	842.5	852.5	857.6
22.5°	806.1	811.1	821.2	832.5	841.2
25°	781.0	786.0	798.6	812.4	822.4
27.5°	752.1	758.4	773.4	792.3	802.3
30°	723.2	730.8	748.3	769.7	781.0
32.5°	693.1	701.9	722.0	745.8	759.6
35°	661.7	670.5	694.3	720.7	737.0
37.5°	629.1	639.1	665.5	695.6	713.2
40°	595.1	606.4	636.6	669.2	689.3
42.5°	561.2	573.8	606.4	645.4	665.5
45°	527.3	541.2	576.3	619.0	641.6
47.5°	492.2	508.5	544.9	592.6	615.2
50°	458.3	474.6	516.0	565.0	587.6
52.5°	423.1	442.0	485.9	536.1	560.0
55°	389.2	408.1	455.8	506.0	531.1
57.5°	355.3	374.2	424.4	475.9	501.0
60°	321.4	341.5	394.3	444.5	470.8
62.5°	287.5	308.9	362.9	414.3	439.5
65°	254.9	277.5	331.5	381.7	408.1
67.5°	223.5	247.4	300.1	349.1	375.4
70°	192.1	216.0	267.4	315.2	341.5
72.5°	162.0	185.8	236.1	278.7	298.8
75°	131.8	156.9	202.1	232.3	244.8
77.5°	103.0	128.1	167.0	187.1	200.9
80°	76.6	97.9	125.6	140.6	145.6
82.5°	52.7	70.3	87.9	91.7	94.2
85°	32.6	41.4	47.7	46.5	46.5
87.5°	15.1	16.3	13.8	10.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)