

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: P259346

Luminaire Tested: **22CZ-LD5-29-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259346
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-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: 2675.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

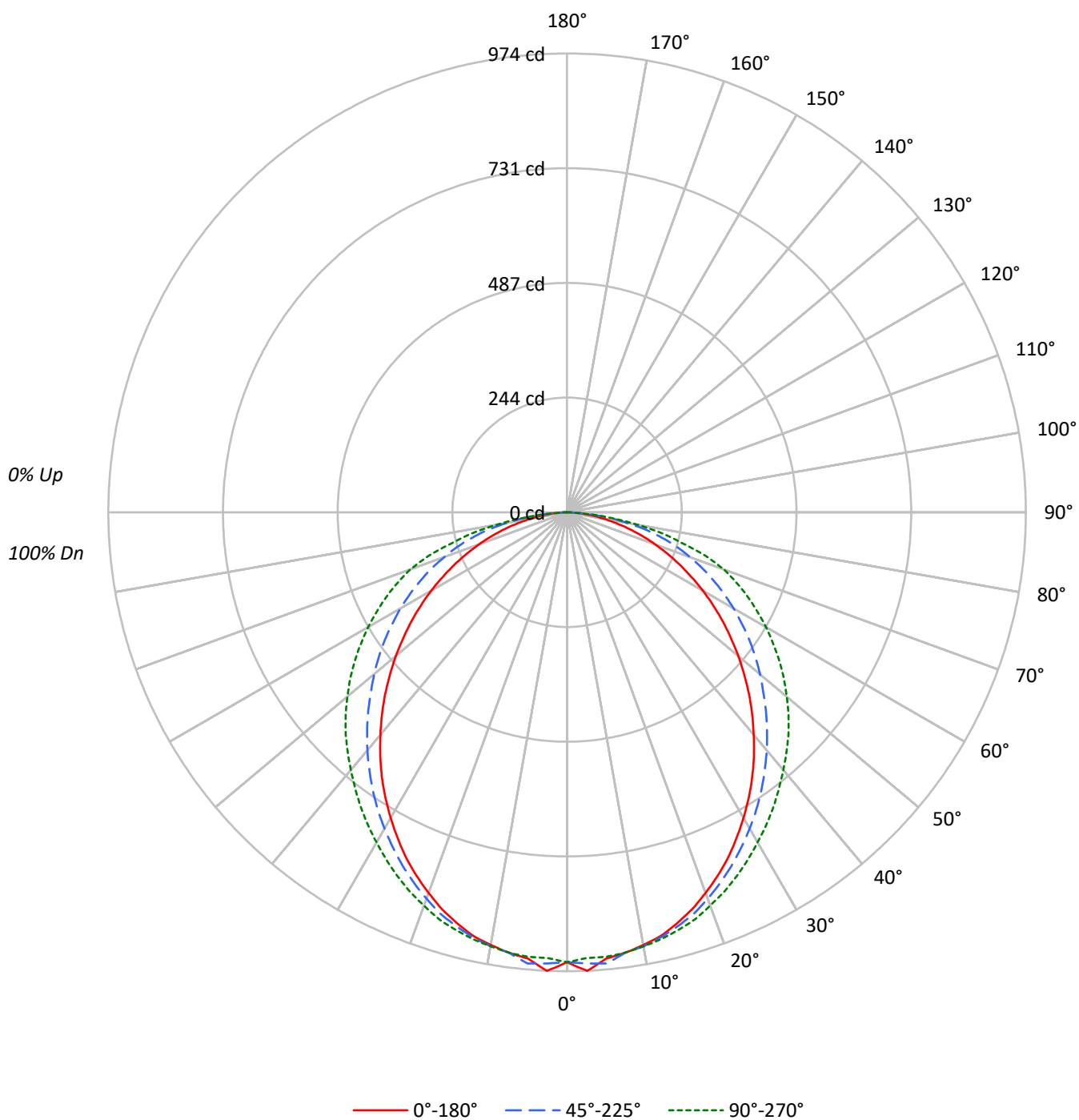
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2569	2569	2569
5°	2569	2597	2558
10°	2549	2556	2556
15°	2515	2533	2555
20°	2462	2499	2544
25°	2402	2456	2530
30°	2328	2409	2514
35°	2252	2363	2508
40°	2166	2317	2509
45°	2079	2272	2530
50°	1988	2238	2549
55°	1892	2215	2581
60°	1792	2199	2625
65°	1682	2187	2692
70°	1566	2180	2784
75°	1420	2177	2638
80°	1229	2016	2338
85°	1044	1525	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.4
10°-20°	256.5	9.6
20°-30°	381.6	14.3
30°-40°	451.3	16.9
40°-50°	463.9	17.3
50°-60°	423.9	15.8
60°-70°	339.1	12.7
70°-80°	212.8	8.0
80°-90°	55.4	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°	728.7	27.2
0°-40°	1180.0	44.1
0°-60°	2067.7	77.3
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	951	951	961	955	947	90
15°	903	904	909	914	917	254
25°	809	814	827	842	852	372
35°	686	695	719	747	764	428
45°	546	561	597	641	665	421
55°	403	423	472	524	550	361
65°	264	288	343	395	423	262
75°	137	163	209	241	254	145
85°	34	43	49	48	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.8	954.8	954.8	954.8	954.8
2.5°	974.3	970.4	958.7	950.9	947.0
5°	950.9	950.9	961.3	954.8	947.0
7.5°	943.1	943.1	943.1	962.6	943.1
10°	932.7	934.0	935.3	943.1	935.3
12.5°	921.0	921.0	923.6	926.2	927.5
15°	902.8	904.1	909.3	914.5	917.1
17.5°	883.3	887.2	893.7	900.2	905.4
20°	859.8	865.0	872.8	883.3	888.5
22.5°	835.1	840.3	850.7	862.4	871.5
25°	809.1	814.3	827.3	841.6	852.0
27.5°	779.2	785.7	801.3	820.8	831.2
30°	749.3	757.1	775.3	797.4	809.1
32.5°	718.0	727.2	748.0	772.7	787.0
35°	685.5	694.6	719.4	746.7	763.6
37.5°	651.7	662.1	689.4	720.7	738.9
40°	616.6	628.3	659.5	693.3	714.1
42.5°	581.5	594.5	628.3	668.6	689.4
45°	546.3	560.7	597.1	641.3	664.7
47.5°	509.9	526.8	564.6	614.0	637.4
50°	474.8	491.7	534.6	585.4	608.8
52.5°	438.4	457.9	503.4	555.4	580.2
55°	403.3	422.8	472.2	524.2	550.2
57.5°	368.1	387.6	439.7	493.0	519.0
60°	333.0	353.8	408.5	460.5	487.8
62.5°	297.9	320.0	375.9	429.3	455.3
65°	264.1	287.5	343.4	395.4	422.8
67.5°	231.5	256.3	310.9	361.6	388.9
70°	199.0	223.7	277.1	326.5	353.8
72.5°	167.8	192.5	244.6	288.8	309.6
75°	136.6	162.6	209.4	240.7	253.7
77.5°	106.7	132.7	173.0	193.8	208.1
80°	79.3	101.5	130.1	145.7	150.9
82.5°	54.6	72.8	91.1	95.0	97.6
85°	33.8	42.9	49.4	48.1	48.1
87.5°	15.6	16.9	14.3	10.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)