

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: P259251

Luminaire Tested: **22CZ-LD5-29-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259251
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-L93050-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: 2662.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

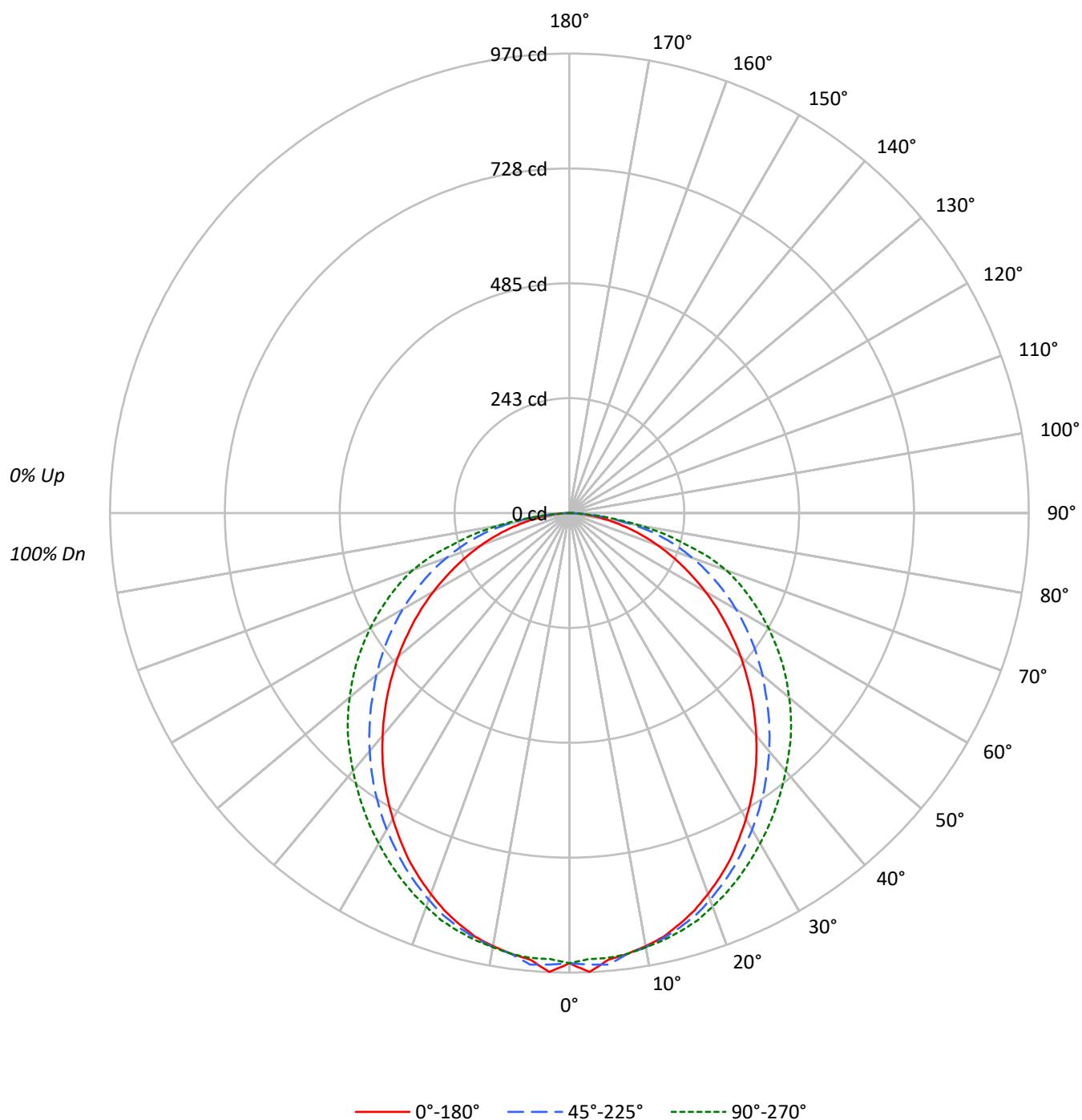
Input Watts (W): 21.706944
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2557	2557	2557
5°	2556	2584	2546
10°	2536	2543	2543
15°	2503	2521	2542
20°	2450	2487	2532
25°	2391	2445	2518
30°	2317	2397	2502
35°	2241	2352	2496
40°	2155	2305	2497
45°	2069	2261	2517
50°	1978	2227	2536
55°	1883	2205	2569
60°	1784	2188	2612
65°	1673	2176	2679
70°	1559	2169	2770
75°	1413	2167	2624
80°	1224	2005	2328
85°	1041	1519	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.4
10°-20°	255.3	9.6
20°-30°	379.7	14.3
30°-40°	449.1	16.9
40°-50°	461.6	17.3
50°-60°	421.8	15.8
60°-70°	337.4	12.7
70°-80°	211.8	8.0
80°-90°	55.2	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°	725.1	27.2
0°-40°	1174.2	44.1
0°-60°	2057.7	77.3
0°-90°	2662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	946	946	957	950	942	90
15°	898	900	905	910	913	253
25°	805	810	823	838	848	370
35°	682	691	716	743	760	426
45°	544	558	594	638	662	419
55°	401	421	470	522	548	359
65°	263	286	342	394	421	261
75°	136	162	208	240	252	144
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°	950.2	950.2	950.2	950.2	950.2
2.5°	969.6	965.7	954.0	946.3	942.4
5°	946.3	946.3	956.6	950.2	942.4
7.5°	938.5	938.5	938.5	957.9	938.5
10°	928.2	929.4	930.7	938.5	930.7
12.5°	916.5	916.5	919.1	921.7	923.0
15°	898.4	899.7	904.9	910.0	912.6
17.5°	879.0	882.8	889.3	895.8	901.0
20°	855.7	860.8	868.6	879.0	884.1
22.5°	831.1	836.2	846.6	858.2	867.3
25°	805.2	810.4	823.3	837.5	847.9
27.5°	775.4	781.9	797.4	816.8	827.2
30°	745.6	753.4	771.5	793.5	805.2
32.5°	714.6	723.6	744.3	768.9	783.2
35°	682.2	691.3	715.9	743.0	759.9
37.5°	648.5	658.9	686.1	717.1	735.3
40°	613.6	625.2	656.3	690.0	710.7
42.5°	578.6	591.6	625.2	665.4	686.1
45°	543.7	557.9	594.2	638.2	661.5
47.5°	507.4	524.3	561.8	611.0	634.3
50°	472.5	489.3	532.0	582.5	605.8
52.5°	436.2	455.7	501.0	552.7	577.3
55°	401.3	420.7	469.9	521.7	547.6
57.5°	366.3	385.8	437.5	490.6	516.5
60°	331.4	352.1	406.5	458.3	485.4
62.5°	296.4	318.4	374.1	427.2	453.1
65°	262.8	286.1	341.7	393.5	420.7
67.5°	230.4	255.0	309.4	359.9	387.1
70°	198.1	222.7	275.7	324.9	352.1
72.5°	167.0	191.6	243.4	287.4	308.1
75°	135.9	161.8	208.4	239.5	252.4
77.5°	106.1	132.0	172.2	192.9	207.1
80°	79.0	101.0	129.4	145.0	150.2
82.5°	54.4	72.5	90.6	94.5	97.1
85°	33.7	42.7	49.2	47.9	47.9
87.5°	15.5	16.8	14.2	10.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)