

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: P259384

Luminaire Tested: **22CZ-LD5-24-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-S-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2635.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

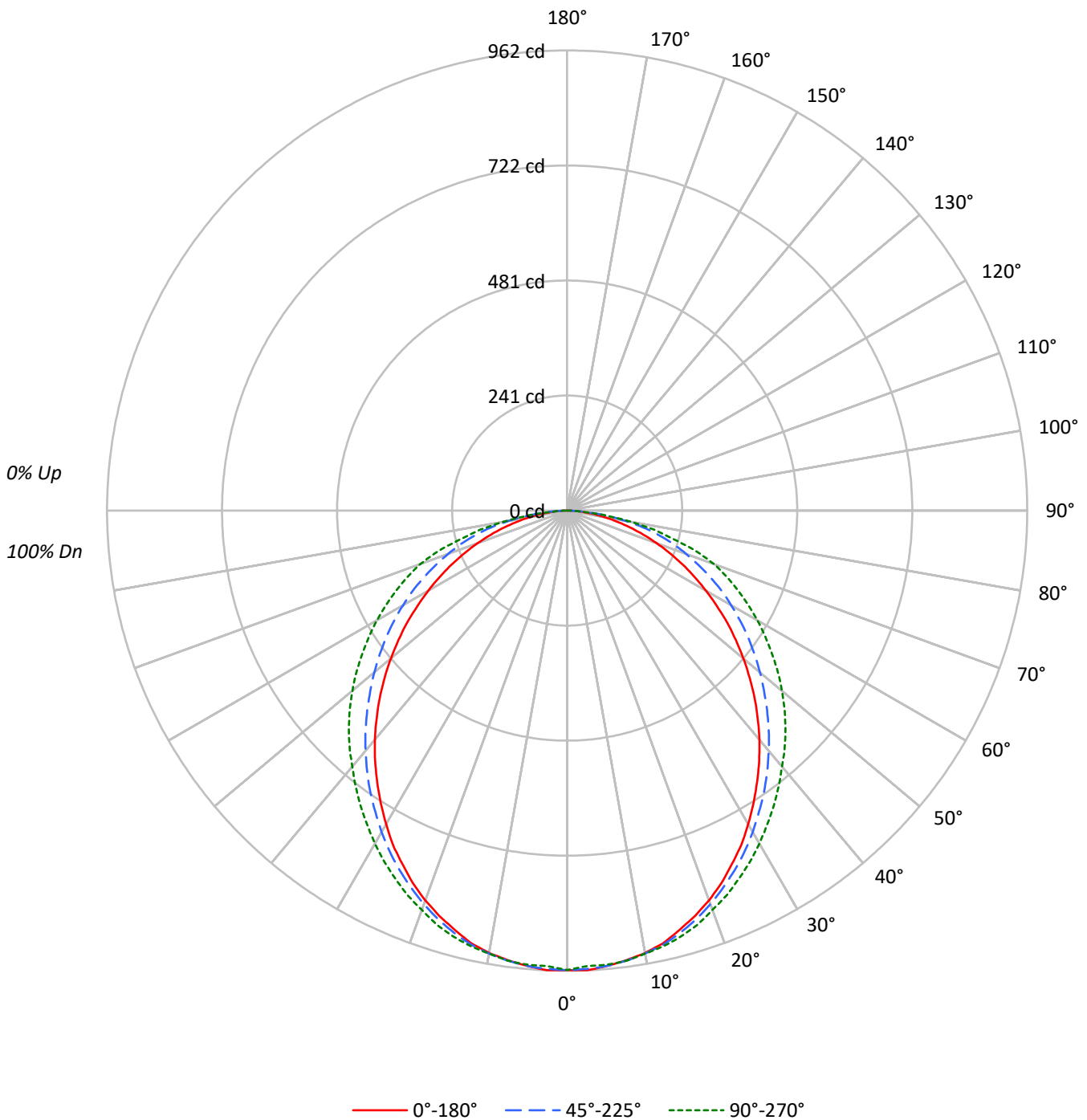
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2585	2585	2585
5°	2581	2581	2574
10°	2566	2570	2570
15°	2528	2546	2567
20°	2483	2508	2544
25°	2420	2461	2521
30°	2352	2411	2497
35°	2274	2357	2474
40°	2196	2303	2454
45°	2109	2249	2457
50°	2013	2204	2453
55°	1918	2168	2452
60°	1805	2132	2472
65°	1692	2103	2506
70°	1563	2081	2569
75°	1408	2066	2382
80°	1235	1922	2080
85°	1016	1445	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.4
10°-20°	257.7	9.8
20°-30°	382.7	14.5
30°-40°	450.5	17.1
40°-50°	459.3	17.4
50°-60°	414.2	15.7
60°-70°	326.3	12.4
70°-80°	201.3	7.6
80°-90°	52.3	2.0
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°	731.2	27.7
0°-40°	1181.7	44.8
0°-60°	2055.2	78.0
0°-90°	2635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	956	957	956	954	953	91
15°	908	911	914	919	921	256
25°	815	820	829	843	849	376
35°	692	700	718	740	753	433
45°	554	563	591	626	646	427
55°	409	423	462	504	523	365
65°	266	285	330	372	394	263
75°	135	158	199	222	229	144
85°	33	42	47	44	42	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.6	960.6	960.6	960.6	960.6
2.5°	961.9	961.9	959.3	956.8	953.0
5°	955.6	956.8	955.6	954.3	953.0
7.5°	948.0	949.2	949.2	949.2	949.2
10°	939.1	940.4	940.4	940.4	940.4
12.5°	926.4	927.7	929.0	930.2	932.8
15°	907.5	911.3	913.8	918.8	921.4
17.5°	888.5	892.3	896.1	902.4	907.5
20°	867.0	869.5	875.8	883.4	888.5
22.5°	842.9	846.7	853.0	863.2	870.8
25°	815.1	820.1	829.0	842.9	849.2
27.5°	788.5	792.3	803.7	818.9	827.7
30°	756.8	761.9	775.8	794.8	803.7
32.5°	725.2	731.5	746.7	768.2	778.4
35°	692.3	699.9	717.6	740.4	753.0
37.5°	659.4	667.0	687.2	712.5	726.5
40°	625.2	632.8	655.6	683.4	698.6
42.5°	589.8	598.6	624.0	655.6	673.3
45°	554.3	563.2	591.0	626.5	645.5
47.5°	517.6	527.8	558.1	597.4	616.4
50°	480.9	492.3	526.5	567.0	586.0
52.5°	444.2	456.9	493.6	535.4	555.6
55°	408.8	422.7	462.0	503.7	522.7
57.5°	370.8	387.3	429.0	469.5	491.1
60°	335.4	353.1	396.1	436.6	459.4
62.5°	300.0	318.9	364.5	405.0	426.5
65°	265.8	284.8	330.3	372.1	393.6
67.5°	231.6	253.1	297.4	339.2	360.7
70°	198.7	221.5	264.5	305.0	326.5
72.5°	167.1	189.8	232.9	270.8	283.5
75°	135.4	158.2	198.7	221.5	229.1
77.5°	106.3	127.8	163.3	177.2	187.3
80°	79.7	98.7	124.0	132.9	134.2
82.5°	54.4	70.9	86.1	87.3	86.1
85°	32.9	41.8	46.8	44.3	41.8
87.5°	15.2	16.5	15.2	10.1	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)