

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: P259258

Luminaire Tested: **22CZ-LD5-39-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259258
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-LD5-39-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 99.4 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

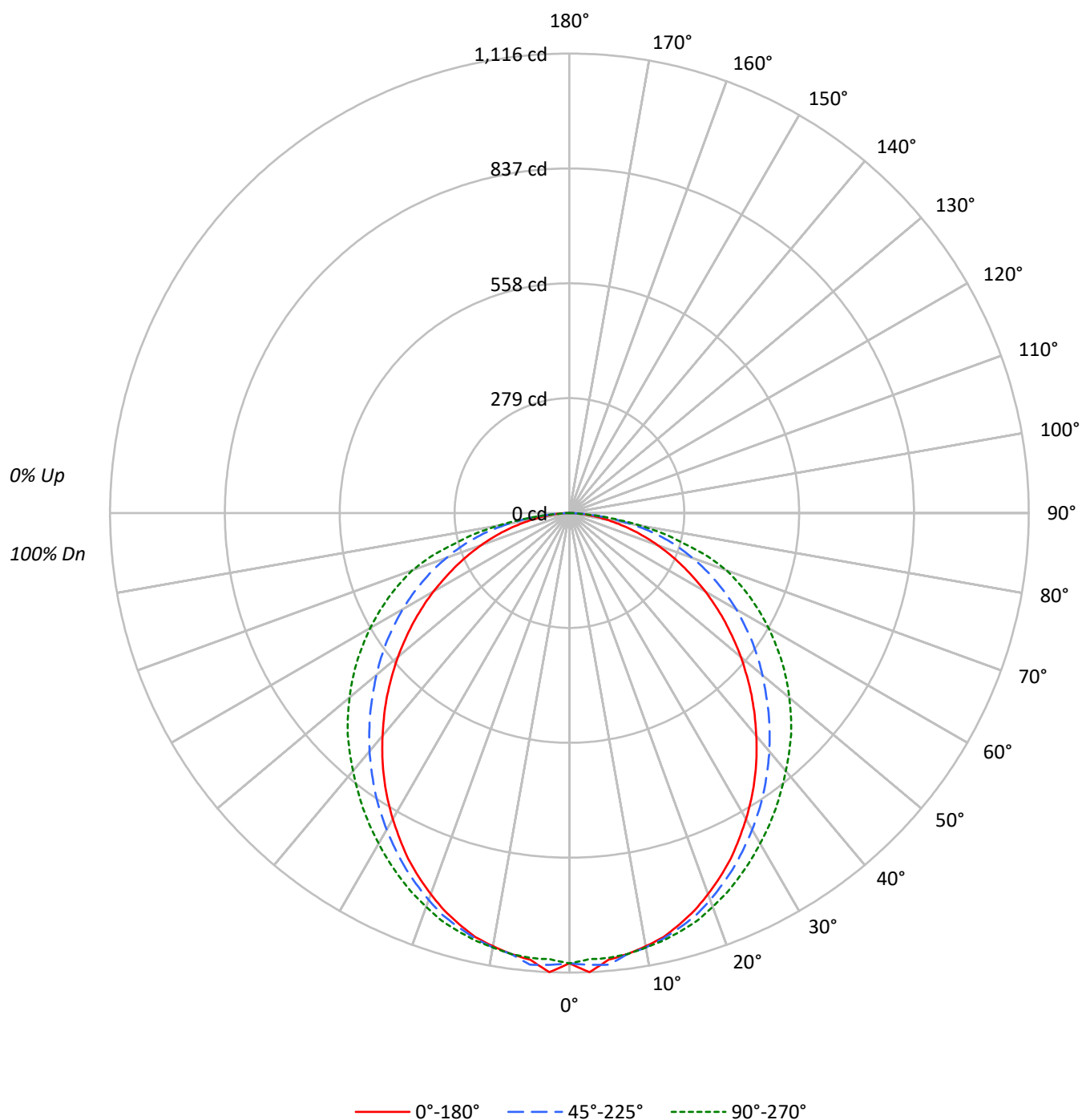
Input Watts (W): 30.825036
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2943	2943	2943
5°	2942	2974	2930
10°	2919	2927	2927
15°	2881	2902	2926
20°	2820	2863	2914
25°	2752	2814	2898
30°	2667	2759	2880
35°	2579	2707	2873
40°	2481	2654	2873
45°	2382	2603	2898
50°	2277	2564	2919
55°	2167	2538	2957
60°	2053	2518	3007
65°	1926	2505	3083
70°	1794	2497	3189
75°	1626	2494	3020
80°	1409	2309	2678
85°	1195	1748	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.4
10°-20°	293.8	9.6
20°-30°	437.1	14.3
30°-40°	516.9	16.9
40°-50°	531.3	17.3
50°-60°	485.5	15.8
60°-70°	388.4	12.7
70°-80°	243.7	8.0
80°-90°	63.5	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°	834.6	27.2
0°-40°	1351.6	44.1
0°-60°	2368.4	77.3
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1089	1089	1101	1094	1085	104
15°	1034	1036	1042	1048	1050	291
25°	927	933	948	964	976	426
35°	785	796	824	855	875	491
45°	626	642	684	735	761	482
55°	462	484	541	600	630	413
65°	302	329	393	453	484	300
75°	156	186	240	276	290	166
85°	39	49	57	55	55	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.6	1093.6	1093.6	1093.6	1093.6
2.5°	1116.0	1111.5	1098.1	1089.2	1084.7
5°	1089.2	1089.2	1101.1	1093.6	1084.7
7.5°	1080.2	1080.2	1080.2	1102.6	1080.2
10°	1068.3	1069.8	1071.3	1080.2	1071.3
12.5°	1054.9	1054.9	1057.9	1060.9	1062.4
15°	1034.0	1035.5	1041.5	1047.5	1050.4
17.5°	1011.7	1016.2	1023.6	1031.1	1037.0
20°	984.9	990.8	999.8	1011.7	1017.7
22.5°	956.6	962.5	974.4	987.9	998.3
25°	926.8	932.7	947.6	964.0	975.9
27.5°	892.5	899.9	917.8	940.2	952.1
30°	858.2	867.2	888.0	913.4	926.8
32.5°	822.5	832.9	856.7	885.0	901.4
35°	785.2	795.6	824.0	855.2	874.6
37.5°	746.5	758.4	789.7	825.4	846.3
40°	706.3	719.7	755.4	794.2	818.0
42.5°	666.0	680.9	719.7	765.8	789.7
45°	625.8	642.2	683.9	734.6	761.4
47.5°	584.1	603.4	646.7	703.3	730.1
50°	543.8	563.2	612.4	670.5	697.3
52.5°	502.1	524.5	576.6	636.2	664.5
55°	461.9	484.2	540.9	600.5	630.3
57.5°	421.7	444.0	503.6	564.7	594.5
60°	381.4	405.3	467.9	527.5	558.7
62.5°	341.2	366.5	430.6	491.7	521.5
65°	302.5	329.3	393.4	453.0	484.2
67.5°	265.2	293.5	356.1	414.2	445.5
70°	228.0	256.3	317.4	374.0	405.3
72.5°	192.2	220.5	280.1	330.8	354.6
75°	156.4	186.2	239.9	275.6	290.5
77.5°	122.2	152.0	198.2	222.0	238.4
80°	90.9	116.2	149.0	166.9	172.8
82.5°	62.6	83.4	104.3	108.8	111.7
85°	38.7	49.2	56.6	55.1	55.1
87.5°	17.9	19.4	16.4	11.9	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)