

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: P259426

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259426
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-LD5-39-S-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3125.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

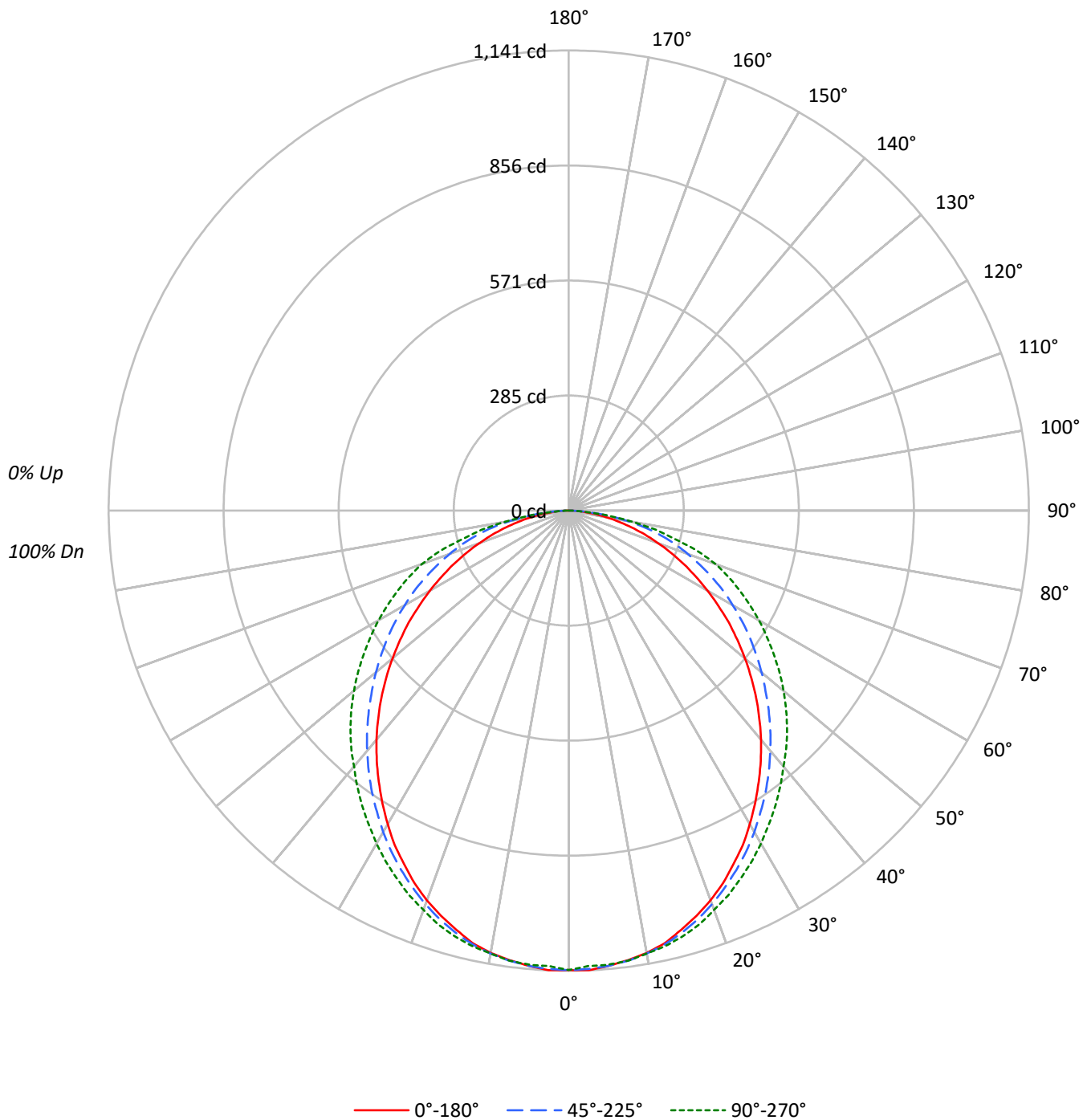
Input Watts (W): 30.825036
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3066	3066	3066
5°	3061	3061	3053
10°	3043	3047	3047
15°	2998	3019	3044
20°	2944	2975	3017
25°	2870	2919	2991
30°	2789	2859	2962
35°	2697	2796	2934
40°	2605	2731	2910
45°	2502	2668	2913
50°	2388	2614	2910
55°	2274	2571	2908
60°	2141	2528	2933
65°	2007	2495	2972
70°	1854	2468	3047
75°	1670	2451	2825
80°	1466	2280	2466
85°	1204	1714	1528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.4
10°-20°	305.6	9.8
20°-30°	453.9	14.5
30°-40°	534.3	17.1
40°-50°	544.7	17.4
50°-60°	491.3	15.7
60°-70°	387.0	12.4
70°-80°	238.7	7.6
80°-90°	62.0	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°	867.1	27.7
0°-40°	1401.4	44.8
0°-60°	2437.4	78.0
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1133	1135	1133	1132	1130	108
15°	1076	1081	1084	1090	1093	303
25°	967	973	983	1000	1007	445
35°	821	830	851	878	893	514
45°	657	668	701	743	766	507
55°	485	501	548	597	620	433
65°	315	338	392	441	467	312
75°	161	188	236	263	272	171
85°	39	50	56	52	50	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1140.7	1140.7	1137.7	1134.7	1130.2
5°	1133.2	1134.7	1133.2	1131.7	1130.2
7.5°	1124.2	1125.7	1125.7	1125.7	1125.7
10°	1113.7	1115.2	1115.2	1115.2	1115.2
12.5°	1098.7	1100.2	1101.7	1103.2	1106.2
15°	1076.2	1080.7	1083.7	1089.7	1092.7
17.5°	1053.7	1058.2	1062.7	1070.2	1076.2
20°	1028.2	1031.2	1038.7	1047.7	1053.7
22.5°	999.7	1004.2	1011.7	1023.7	1032.7
25°	966.6	972.6	983.1	999.7	1007.2
27.5°	935.1	939.6	953.1	971.1	981.6
30°	897.6	903.6	920.1	942.6	953.1
32.5°	860.1	867.6	885.6	911.1	923.1
35°	821.0	830.0	851.1	878.1	893.1
37.5°	782.0	791.0	815.0	845.1	861.6
40°	741.5	750.5	777.5	810.5	828.5
42.5°	699.5	710.0	740.0	777.5	798.5
45°	657.4	667.9	701.0	743.0	765.5
47.5°	613.9	625.9	661.9	708.5	731.0
50°	570.4	583.9	624.4	672.4	695.0
52.5°	526.8	541.9	585.4	634.9	658.9
55°	484.8	501.3	547.9	597.4	619.9
57.5°	439.8	459.3	508.8	556.9	582.4
60°	397.8	418.8	469.8	517.8	544.9
62.5°	355.7	378.2	432.3	480.3	505.8
65°	315.2	337.7	391.8	441.3	466.8
67.5°	274.7	300.2	352.7	402.3	427.8
70°	235.7	262.7	313.7	361.7	387.3
72.5°	198.1	225.1	276.2	321.2	336.2
75°	160.6	187.6	235.7	262.7	271.7
77.5°	126.1	151.6	193.6	210.1	222.1
80°	94.6	117.1	147.1	157.6	159.1
82.5°	64.5	84.1	102.1	103.6	102.1
85°	39.0	49.5	55.5	52.5	49.5
87.5°	18.0	19.5	18.0	12.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)