

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: P259460

Luminaire Tested: **22CZ-LD5-29-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259460
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-LD5-29-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.0 lumens
Efficiency: N/A
Efficacy: 141.3 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

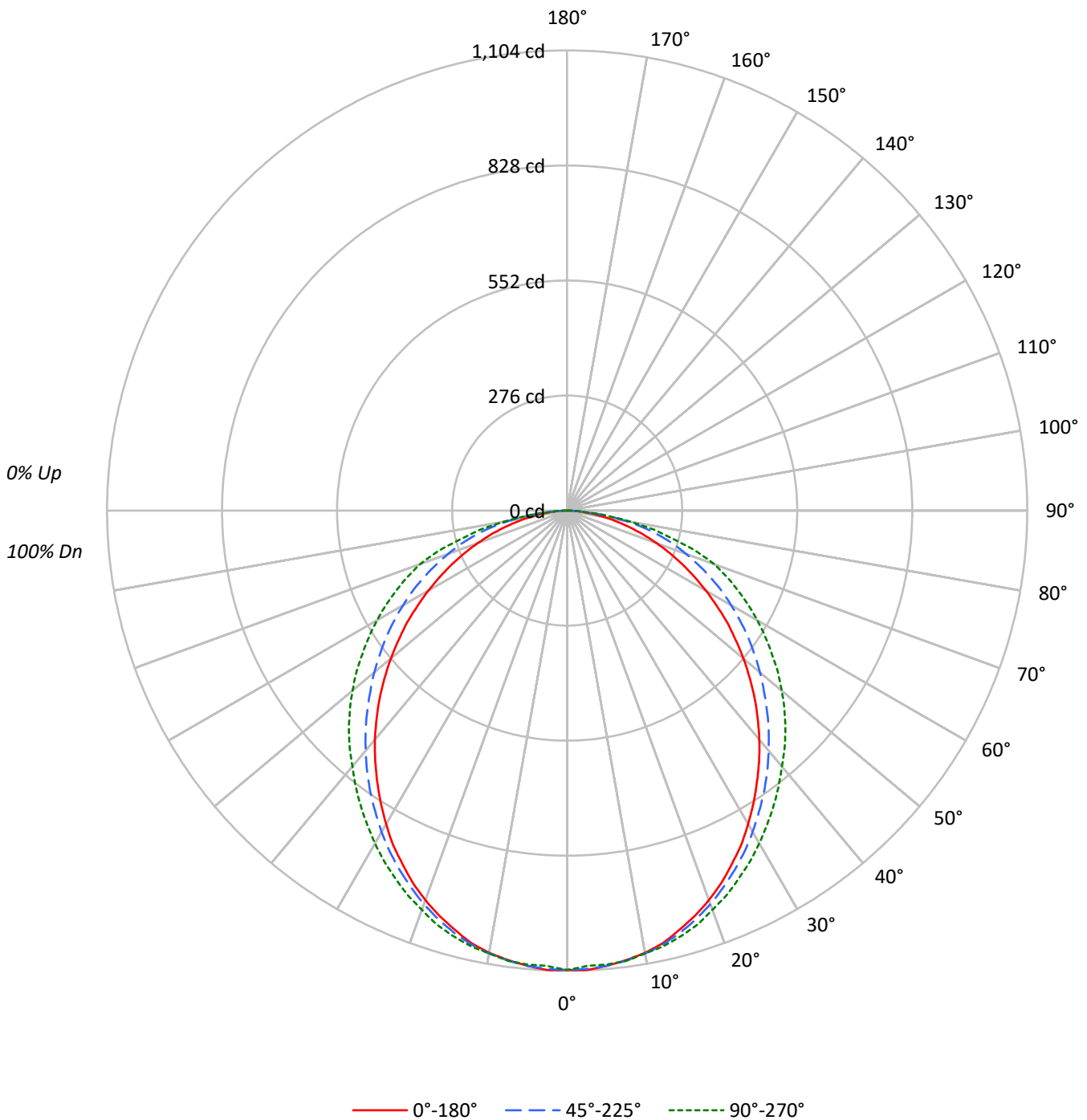
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2966	2966	2966
5°	2961	2961	2954
10°	2944	2948	2948
15°	2900	2920	2945
20°	2848	2877	2919
25°	2776	2824	2893
30°	2698	2766	2865
35°	2609	2705	2838
40°	2520	2642	2816
45°	2420	2581	2818
50°	2310	2529	2815
55°	2200	2487	2814
60°	2071	2446	2837
65°	1941	2413	2876
70°	1794	2388	2947
75°	1616	2371	2732
80°	1418	2205	2385
85°	1167	1658	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.4
10°-20°	295.6	9.8
20°-30°	439.1	14.5
30°-40°	516.9	17.1
40°-50°	526.9	17.4
50°-60°	475.2	15.7
60°-70°	374.3	12.4
70°-80°	230.9	7.6
80°-90°	59.9	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°	838.8	27.7
0°-40°	1355.7	44.8
0°-60°	2357.8	78.0
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1096	1098	1096	1095	1093	104
15°	1041	1045	1048	1054	1057	294
25°	935	941	951	967	974	431
35°	794	803	823	849	864	497
45°	636	646	678	719	740	490
55°	469	485	530	578	600	419
65°	305	327	379	427	452	302
75°	155	182	228	254	263	166
85°	38	48	54	51	48	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1103.5	1103.5	1100.6	1097.7	1093.4
5°	1096.3	1097.7	1096.3	1094.8	1093.4
7.5°	1087.5	1089.0	1089.0	1089.0	1089.0
10°	1077.4	1078.8	1078.8	1078.8	1078.8
12.5°	1062.9	1064.3	1065.8	1067.2	1070.1
15°	1041.1	1045.4	1048.3	1054.1	1057.1
17.5°	1019.3	1023.7	1028.0	1035.3	1041.1
20°	994.6	997.5	1004.8	1013.5	1019.3
22.5°	967.0	971.4	978.6	990.3	999.0
25°	935.1	940.9	951.1	967.0	974.3
27.5°	904.6	908.9	922.0	939.4	949.6
30°	868.3	874.1	890.1	911.9	922.0
32.5°	832.0	839.3	856.7	881.4	893.0
35°	794.2	803.0	823.3	849.4	863.9
37.5°	756.5	765.2	788.4	817.5	833.4
40°	717.3	726.0	752.1	784.1	801.5
42.5°	676.6	686.8	715.8	752.1	772.5
45°	636.0	646.1	678.1	718.7	740.5
47.5°	593.9	605.5	640.3	685.3	707.1
50°	551.8	564.8	604.0	650.5	672.3
52.5°	509.6	524.2	566.3	614.2	637.4
55°	469.0	485.0	530.0	577.9	599.7
57.5°	425.4	444.3	492.2	538.7	563.4
60°	384.8	405.1	454.5	500.9	527.1
62.5°	344.1	365.9	418.2	464.6	489.3
65°	304.9	326.7	379.0	426.9	451.6
67.5°	265.7	290.4	341.2	389.1	413.8
70°	228.0	254.1	303.5	349.9	374.6
72.5°	191.7	217.8	267.2	310.7	325.2
75°	155.4	181.5	228.0	254.1	262.8
77.5°	122.0	146.7	187.3	203.3	214.9
80°	91.5	113.3	142.3	152.5	153.9
82.5°	62.4	81.3	98.7	100.2	98.7
85°	37.8	47.9	53.7	50.8	47.9
87.5°	17.4	18.9	17.4	11.6	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)