

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: P259513

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259513
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-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2688.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

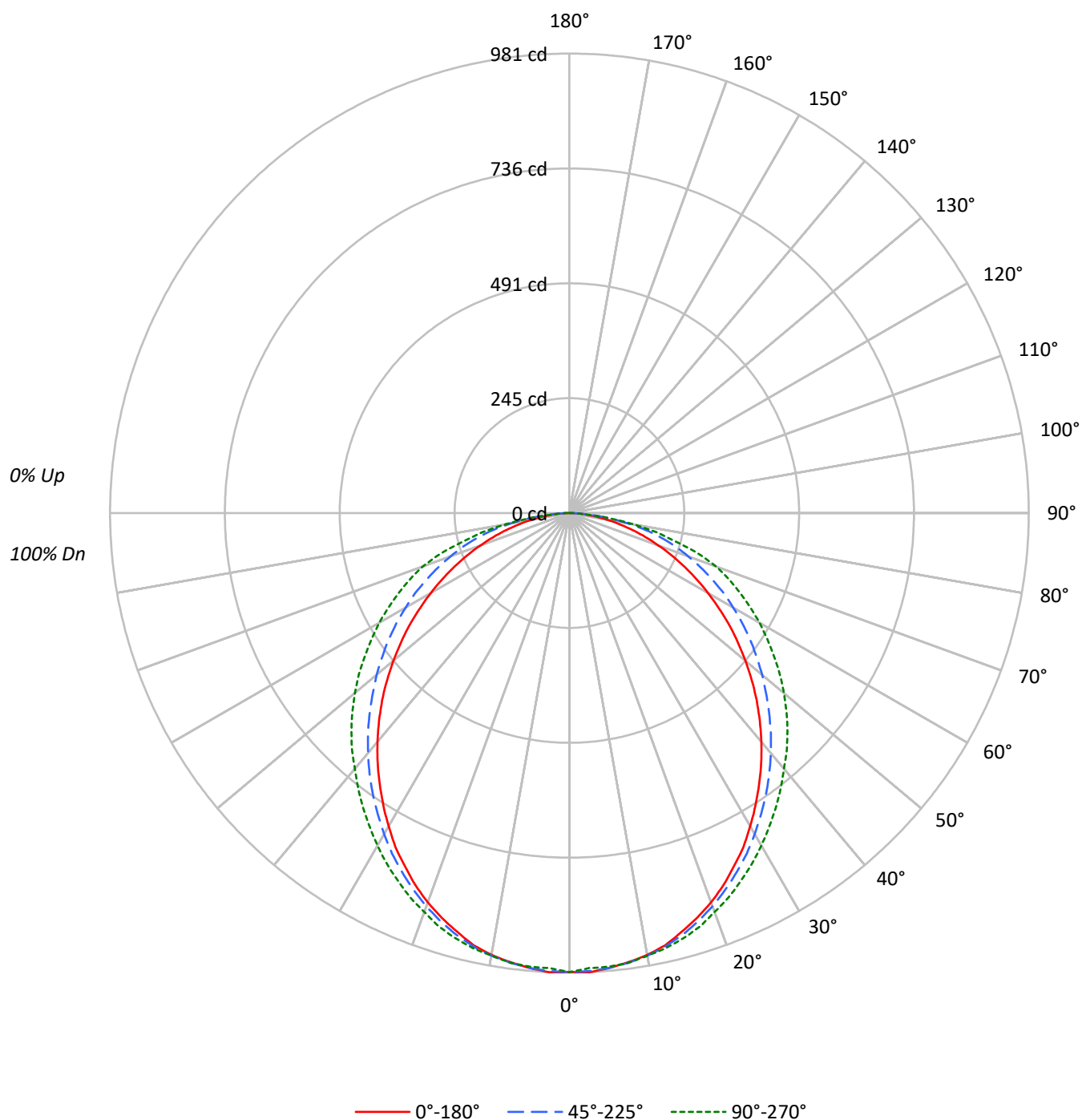
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2637	2637	2637
5°	2633	2633	2626
10°	2618	2621	2621
15°	2579	2597	2618
20°	2533	2558	2595
25°	2469	2511	2572
30°	2399	2459	2547
35°	2320	2405	2524
40°	2240	2349	2504
45°	2152	2294	2506
50°	2054	2249	2503
55°	1956	2211	2502
60°	1841	2175	2523
65°	1726	2146	2557
70°	1595	2123	2621
75°	1436	2108	2430
80°	1260	1960	2122
85°	1037	1476	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.4
10°-20°	262.9	9.8
20°-30°	390.4	14.5
30°-40°	459.6	17.1
40°-50°	468.5	17.4
50°-60°	422.6	15.7
60°-70°	332.8	12.4
70°-80°	205.3	7.6
80°-90°	53.3	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°	745.8	27.7
0°-40°	1205.4	44.8
0°-60°	2096.5	78.0
0°-90°	2688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	975	976	975	974	972	93
15°	926	930	932	937	940	261
25°	832	837	846	860	866	383
35°	706	714	732	755	768	442
45°	566	574	603	639	658	436
55°	417	431	471	514	533	372
65°	271	290	337	380	402	269
75°	138	161	203	226	234	147
85°	34	43	48	45	43	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.9	979.9	979.9	979.9	979.9
2.5°	981.2	981.2	978.6	976.1	972.2
5°	974.8	976.1	974.8	973.5	972.2
7.5°	967.0	968.3	968.3	968.3	968.3
10°	958.0	959.3	959.3	959.3	959.3
12.5°	945.1	946.4	947.7	948.9	951.5
15°	925.7	929.6	932.2	937.3	939.9
17.5°	906.3	910.2	914.1	920.5	925.7
20°	884.4	887.0	893.4	901.2	906.3
22.5°	859.9	863.7	870.2	880.5	888.3
25°	831.5	836.6	845.7	859.9	866.3
27.5°	804.3	808.2	819.8	835.3	844.4
30°	772.1	777.2	791.4	810.8	819.8
32.5°	739.8	746.2	761.7	783.7	794.0
35°	706.2	714.0	732.0	755.3	768.2
37.5°	672.7	680.4	701.1	726.9	741.1
40°	637.8	645.5	668.8	697.2	712.7
42.5°	601.6	610.7	636.5	668.8	686.9
45°	565.5	574.5	602.9	639.1	658.5
47.5°	528.1	538.4	569.4	609.4	628.8
50°	490.6	502.2	537.1	578.4	597.8
52.5°	453.2	466.1	503.5	546.1	566.8
55°	417.0	431.2	471.2	513.9	533.2
57.5°	378.3	395.1	437.7	479.0	500.9
60°	342.1	360.2	404.1	445.4	468.7
62.5°	306.0	325.4	371.8	413.1	435.1
65°	271.1	290.5	337.0	379.6	401.5
67.5°	236.3	258.2	303.4	346.0	368.0
70°	202.7	225.9	269.8	311.2	333.1
72.5°	170.4	193.7	237.6	276.3	289.2
75°	138.1	161.4	202.7	225.9	233.7
77.5°	108.5	130.4	166.6	180.8	191.1
80°	81.3	100.7	126.5	135.6	136.9
82.5°	55.5	72.3	87.8	89.1	87.8
85°	33.6	42.6	47.8	45.2	42.6
87.5°	15.5	16.8	15.5	10.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)