

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: P259419

Luminaire Tested: **22CZ-LD5-29-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259419
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-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

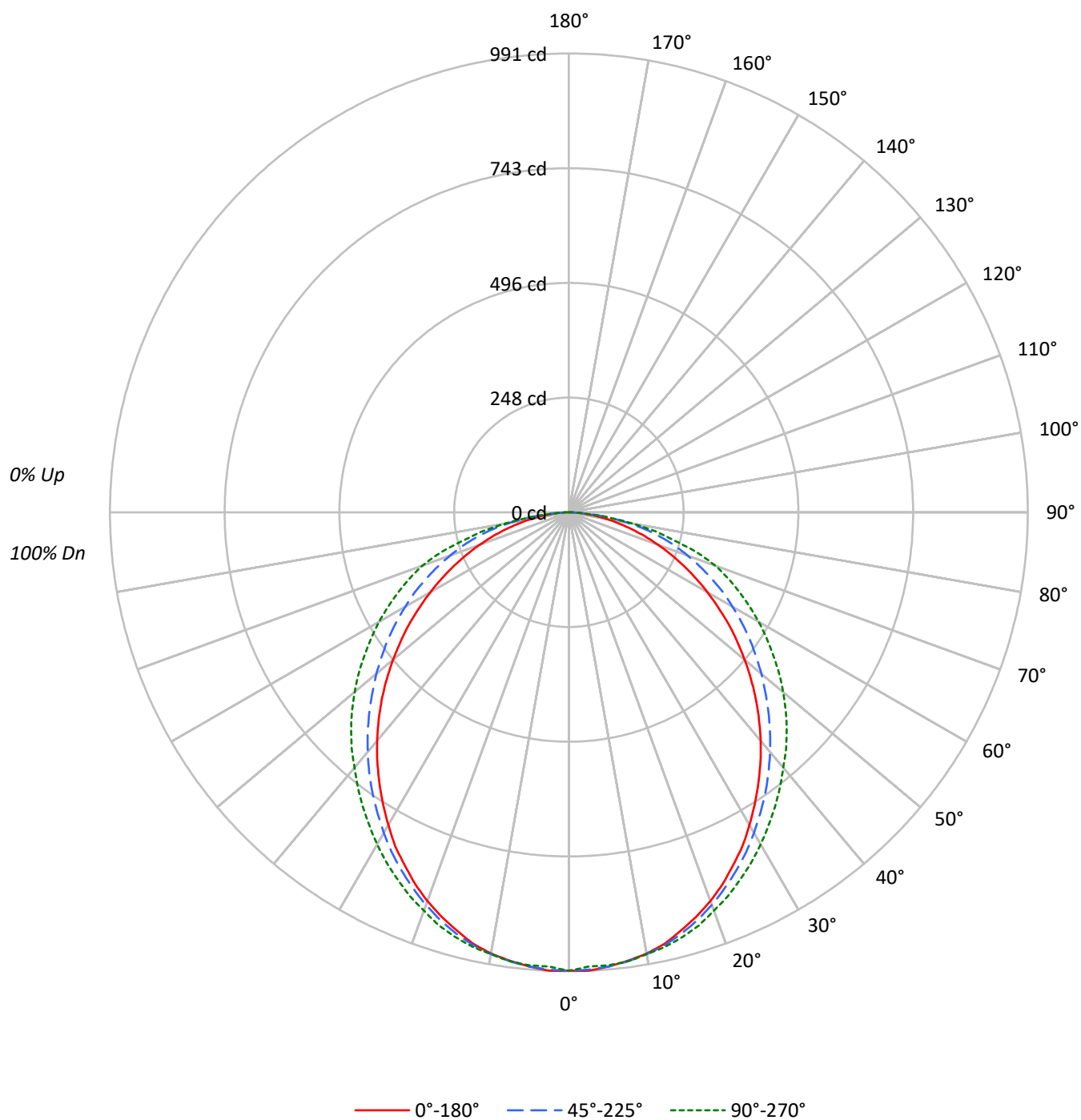
Input Watts (W): 21.706944
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259419

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L93050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P259419

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L93050-W2A1-U-4500K

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°	2664	2664	2664
5°	2660	2660	2653
10°	2644	2648	2648
15°	2605	2623	2645
20°	2558	2584	2621
25°	2494	2536	2598
30°	2423	2484	2573
35°	2343	2429	2549
40°	2263	2373	2529
45°	2174	2318	2531
50°	2074	2271	2528
55°	1976	2233	2527
60°	1860	2197	2548
65°	1744	2167	2583
70°	1611	2144	2647
75°	1450	2128	2454
80°	1274	1980	2142
85°	1047	1491	1328



TEST NUMBER: P259419

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L93050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.4
10°-20°	265.5	9.8
20°-30°	394.4	14.5
30°-40°	464.2	17.1
40°-50°	473.2	17.4
50°-60°	426.8	15.7
60°-70°	336.2	12.4
70°-80°	207.4	7.6
80°-90°	53.8	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°	753.3	27.7
0°-40°	1217.5	44.8
0°-60°	2117.6	78.0
0°-90°	2715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	985	986	985	983	982	93
15°	935	939	942	947	949	264
25°	840	845	854	868	875	387
35°	713	721	739	763	776	446
45°	571	580	609	646	665	440
55°	421	436	476	519	539	376
65°	274	293	340	383	406	271
75°	140	163	205	228	236	149
85°	34	43	48	46	43	40
90°	0	0	0	0	0	



TEST NUMBER: P259419

CATALOG NUMBER: 22CZ-LD5-29-S-UNV-L93050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.8	989.8	989.8	989.8	989.8
2.5°	991.1	991.1	988.5	985.9	982.0
5°	984.6	985.9	984.6	983.3	982.0
7.5°	976.7	978.0	978.0	978.0	978.0
10°	967.6	968.9	968.9	968.9	968.9
12.5°	954.6	955.9	957.2	958.5	961.1
15°	935.0	938.9	941.5	946.7	949.4
17.5°	915.4	919.4	923.3	929.8	935.0
20°	893.3	895.9	902.4	910.2	915.4
22.5°	868.5	872.4	878.9	889.4	897.2
25°	839.8	845.0	854.2	868.5	875.0
27.5°	812.4	816.3	828.1	843.7	852.9
30°	779.8	785.0	799.4	818.9	828.1
32.5°	747.2	753.7	769.4	791.6	802.0
35°	713.3	721.1	739.4	762.9	775.9
37.5°	679.4	687.2	708.1	734.2	748.5
40°	644.2	652.0	675.5	704.2	719.8
42.5°	607.7	616.8	642.9	675.5	693.8
45°	571.2	580.3	609.0	645.5	665.1
47.5°	533.4	543.8	575.1	615.5	635.1
50°	495.5	507.3	542.5	584.2	603.8
52.5°	457.7	470.8	508.6	551.6	572.5
55°	421.2	435.6	476.0	519.0	538.6
57.5°	382.1	399.0	442.1	483.8	506.0
60°	345.6	363.8	408.2	449.9	473.4
62.5°	309.1	328.6	375.6	417.3	439.5
65°	273.9	293.4	340.4	383.4	405.6
67.5°	238.6	260.8	306.5	349.5	371.7
70°	204.7	228.2	272.5	314.3	336.4
72.5°	172.1	195.6	239.9	279.1	292.1
75°	139.5	163.0	204.7	228.2	236.0
77.5°	109.5	131.7	168.2	182.6	193.0
80°	82.2	101.7	127.8	136.9	138.2
82.5°	56.1	73.0	88.7	90.0	88.7
85°	33.9	43.0	48.3	45.6	43.0
87.5°	15.6	17.0	15.6	10.4	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)