

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: P259514

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259514
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2729.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

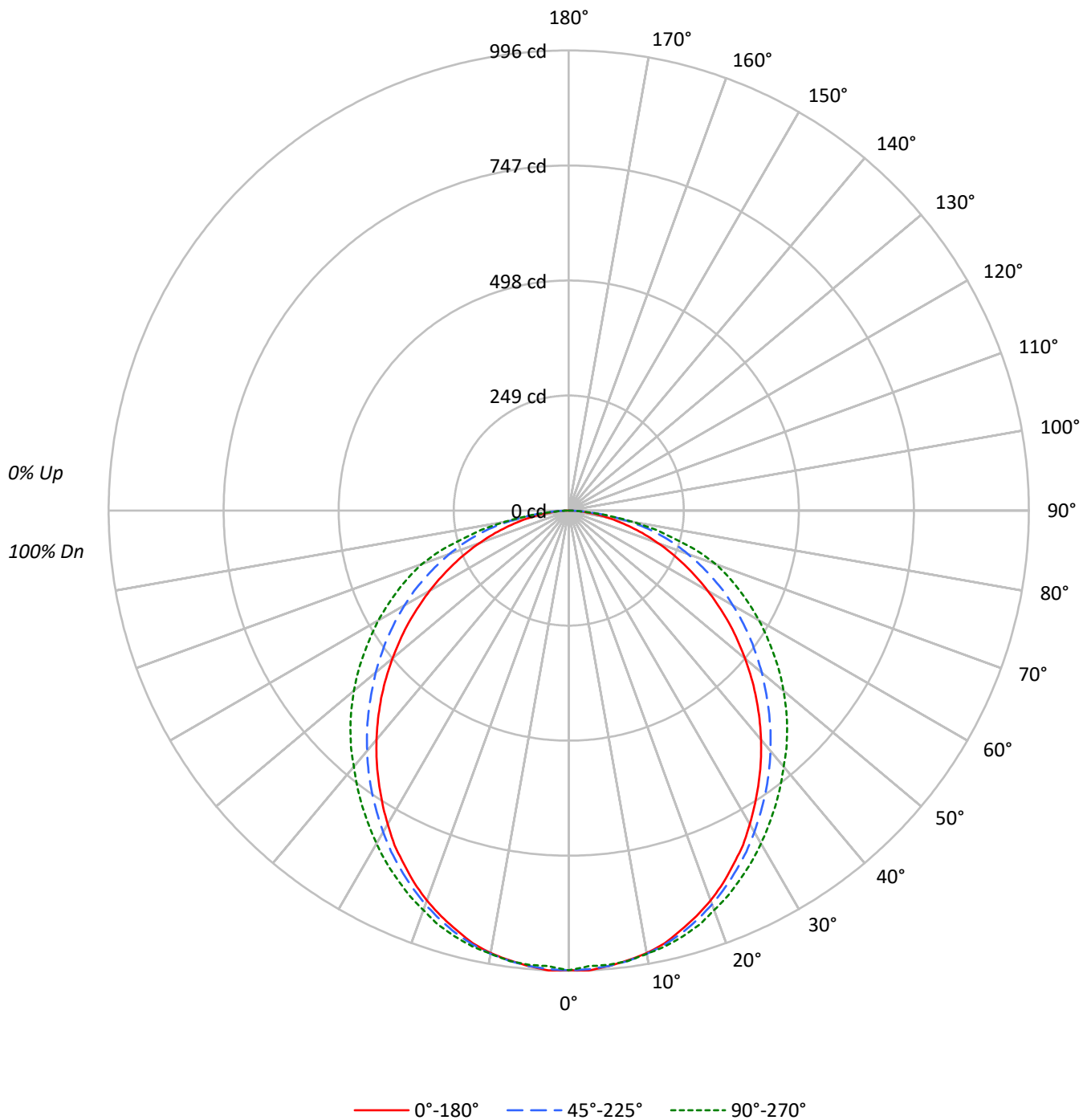
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	2677	2677	2677
5°	2673	2673	2666
10°	2658	2661	2661
15°	2618	2637	2658
20°	2571	2598	2635
25°	2506	2549	2611
30°	2435	2497	2586
35°	2355	2441	2562
40°	2275	2385	2542
45°	2185	2329	2544
50°	2085	2283	2541
55°	1986	2244	2540
60°	1870	2208	2561
65°	1753	2178	2596
70°	1619	2156	2661
75°	1459	2140	2467
80°	1280	1991	2152
85°	1053	1497	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.4
10°-20°	266.9	9.8
20°-30°	396.4	14.5
30°-40°	466.6	17.1
40°-50°	475.7	17.4
50°-60°	429.0	15.7
60°-70°	337.9	12.4
70°-80°	208.4	7.6
80°-90°	54.1	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°	757.2	27.7
0°-40°	1223.8	44.8
0°-60°	2128.5	78.0
0°-90°	2729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	990	991	990	988	987	94
15°	940	944	946	952	954	265
25°	844	849	859	873	880	389
35°	717	725	743	767	780	449
45°	574	583	612	649	668	443
55°	423	438	478	522	541	378
65°	275	295	342	385	408	273
75°	140	164	206	229	237	150
85°	34	43	48	46	43	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.9	994.9	994.9	994.9	994.9
2.5°	996.2	996.2	993.6	990.9	987.0
5°	989.6	990.9	989.6	988.3	987.0
7.5°	981.8	983.1	983.1	983.1	983.1
10°	972.6	973.9	973.9	973.9	973.9
12.5°	959.5	960.8	962.1	963.4	966.0
15°	939.8	943.8	946.4	951.6	954.2
17.5°	920.2	924.1	928.0	934.6	939.8
20°	897.9	900.5	907.1	914.9	920.2
22.5°	873.0	876.9	883.5	894.0	901.8
25°	844.1	849.4	858.6	873.0	879.5
27.5°	816.6	820.5	832.3	848.1	857.3
30°	783.8	789.1	803.5	823.2	832.3
32.5°	751.1	757.6	773.4	795.6	806.1
35°	717.0	724.9	743.2	766.8	779.9
37.5°	682.9	690.8	711.8	738.0	752.4
40°	647.5	655.4	679.0	707.8	723.6
42.5°	610.8	620.0	646.2	679.0	697.3
45°	574.1	583.3	612.1	648.8	668.5
47.5°	536.1	546.6	578.1	618.7	638.3
50°	498.1	509.9	545.3	587.2	606.9
52.5°	460.1	473.2	511.2	554.5	575.4
55°	423.4	437.8	478.4	521.7	541.4
57.5°	384.1	401.1	444.4	486.3	508.6
60°	347.4	365.7	410.3	452.2	475.8
62.5°	310.7	330.3	377.5	419.4	441.7
65°	275.3	294.9	342.1	385.4	407.7
67.5°	239.9	262.2	308.0	351.3	373.6
70°	205.8	229.4	274.0	315.9	338.2
72.5°	173.0	196.6	241.2	280.5	293.6
75°	140.3	163.8	205.8	229.4	237.3
77.5°	110.1	132.4	169.1	183.5	194.0
80°	82.6	102.2	128.5	137.6	138.9
82.5°	56.4	73.4	89.1	90.4	89.1
85°	34.1	43.3	48.5	45.9	43.3
87.5°	15.7	17.0	15.7	10.5	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)