

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: P259510

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259510
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2487.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

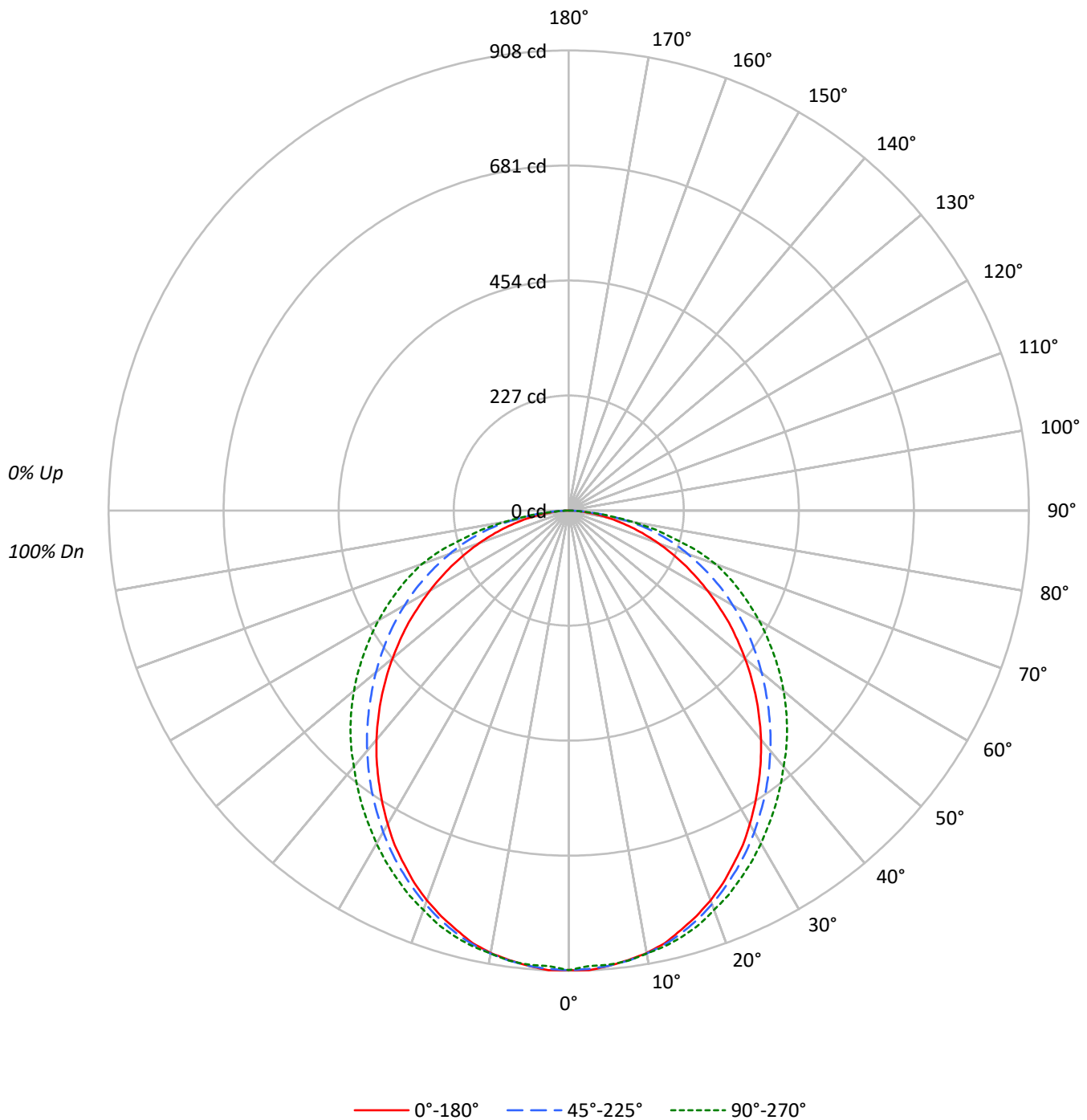
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2440	2440	2440
5°	2436	2436	2430
10°	2422	2425	2425
15°	2386	2403	2423
20°	2343	2367	2401
25°	2284	2323	2380
30°	2220	2275	2357
35°	2146	2225	2335
40°	2073	2174	2316
45°	1991	2123	2318
50°	1900	2080	2316
55°	1810	2046	2314
60°	1704	2012	2334
65°	1598	1985	2365
70°	1475	1965	2425
75°	1329	1949	2248
80°	1167	1815	1962
85°	960	1365	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.4
10°-20°	243.2	9.8
20°-30°	361.2	14.5
30°-40°	425.2	17.1
40°-50°	433.5	17.4
50°-60°	391.0	15.7
60°-70°	308.0	12.4
70°-80°	189.9	7.6
80°-90°	49.3	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°	690.1	27.7
0°-40°	1115.3	44.8
0°-60°	1939.8	78.0
0°-90°	2487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	902	903	902	901	900	86
15°	856	860	862	867	870	241
25°	769	774	782	796	802	354
35°	653	661	677	699	711	409
45°	523	532	558	591	609	403
55°	386	399	436	475	493	344
65°	251	269	312	351	372	248
75°	128	149	188	209	216	136
85°	31	39	44	42	39	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.7	906.7	906.7	906.7	906.7
2.5°	907.9	907.9	905.5	903.1	899.5
5°	901.9	903.1	901.9	900.7	899.5
7.5°	894.7	895.9	895.9	895.9	895.9
10°	886.4	887.5	887.5	887.5	887.5
12.5°	874.4	875.6	876.8	878.0	880.4
15°	856.5	860.1	862.5	867.2	869.6
17.5°	838.6	842.2	845.7	851.7	856.5
20°	818.3	820.7	826.6	833.8	838.6
22.5°	795.6	799.1	805.1	814.7	821.8
25°	769.3	774.1	782.4	795.6	801.5
27.5°	744.2	747.8	758.5	772.9	781.2
30°	714.3	719.1	732.3	750.2	758.5
32.5°	684.5	690.4	704.8	725.1	734.6
35°	653.4	660.6	677.3	698.8	710.8
37.5°	622.4	629.5	648.6	672.5	685.7
40°	590.1	597.3	618.8	645.1	659.4
42.5°	556.7	565.0	588.9	618.8	635.5
45°	523.2	531.6	557.9	591.3	609.2
47.5°	488.6	498.1	526.8	563.8	581.7
50°	453.9	464.7	496.9	535.2	553.1
52.5°	419.3	431.2	465.9	505.3	524.4
55°	385.8	399.0	436.0	475.4	493.3
57.5°	350.0	365.5	405.0	443.2	463.5
60°	316.6	333.3	373.9	412.1	433.6
62.5°	283.1	301.0	344.0	382.3	402.6
65°	250.9	268.8	311.8	351.2	371.5
67.5°	218.6	238.9	280.7	320.1	340.4
70°	187.5	209.0	249.7	287.9	308.2
72.5°	157.7	179.2	219.8	255.6	267.6
75°	127.8	149.3	187.5	209.0	216.2
77.5°	100.3	120.6	154.1	167.2	176.8
80°	75.3	93.2	117.1	125.4	126.6
82.5°	51.4	66.9	81.2	82.4	81.2
85°	31.1	39.4	44.2	41.8	39.4
87.5°	14.3	15.5	14.3	9.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)