

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: P259286

Luminaire Tested: **22CZ-LD5-29-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2615.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

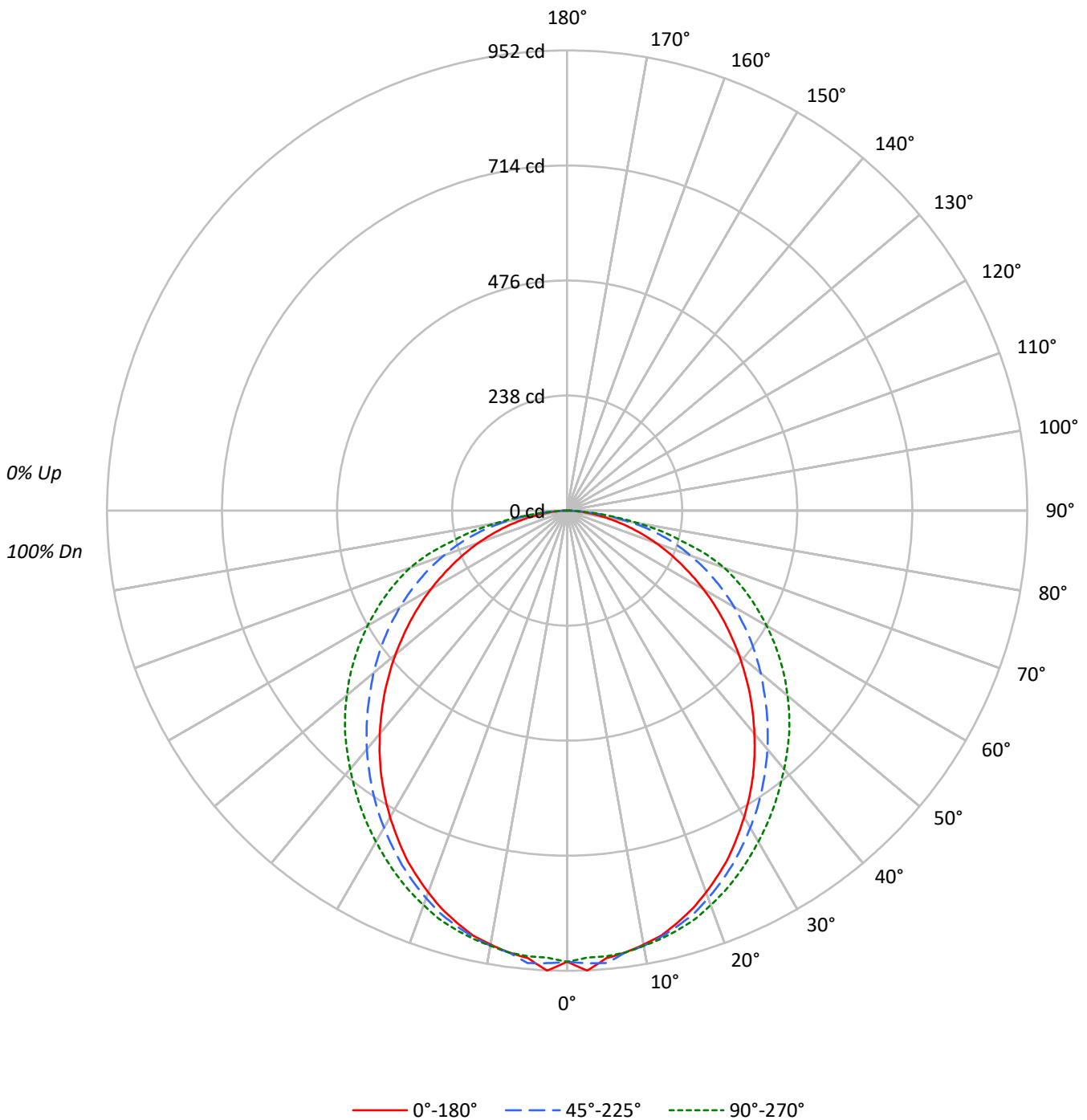
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259286

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P259286

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-2700K

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2512	2512	2512
5°	2511	2538	2501
10°	2491	2498	2498
15°	2459	2476	2498
20°	2407	2444	2487
25°	2349	2401	2473
30°	2276	2355	2458
35°	2202	2310	2452
40°	2118	2265	2452
45°	2033	2221	2473
50°	1943	2188	2491
55°	1849	2166	2524
60°	1752	2149	2567
65°	1643	2138	2632
70°	1531	2131	2722
75°	1388	2128	2578
80°	1203	1971	2286
85°	1022	1491	1454



TEST NUMBER: P259286

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.4
10°-20°	250.8	9.6
20°-30°	373.0	14.3
30°-40°	441.2	16.9
40°-50°	453.5	17.3
50°-60°	414.4	15.8
60°-70°	331.5	12.7
70°-80°	208.0	8.0
80°-90°	54.2	2.1
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°	712.3	27.2
0°-40°	1153.5	44.1
0°-60°	2021.3	77.3
0°-90°	2615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	930	930	940	933	926	88
15°	882	884	889	894	896	249
25°	791	796	809	823	833	364
35°	670	679	703	730	746	419
45°	534	548	584	627	650	412
55°	394	413	462	512	538	353
65°	258	281	336	387	413	256
75°	134	159	205	235	248	142
85°	33	42	48	47	47	38
90°	0	0	0	0	0	



TEST NUMBER: P259286

CATALOG NUMBER: 22CZ-LD5-29-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.4	933.4	933.4	933.4	933.4
2.5°	952.5	948.6	937.2	929.6	925.8
5°	929.6	929.6	939.7	933.4	925.8
7.5°	921.9	921.9	921.9	941.0	921.9
10°	911.8	913.0	914.3	921.9	914.3
12.5°	900.3	900.3	902.9	905.4	906.7
15°	882.5	883.8	888.9	894.0	896.5
17.5°	863.4	867.3	873.6	880.0	885.1
20°	840.6	845.6	853.3	863.4	868.5
22.5°	816.4	821.5	831.7	843.1	852.0
25°	791.0	796.0	808.8	822.7	832.9
27.5°	761.7	768.1	783.3	802.4	812.6
30°	732.5	740.1	757.9	779.5	791.0
32.5°	701.9	710.8	731.2	755.4	769.3
35°	670.2	679.1	703.2	729.9	746.5
37.5°	637.1	647.3	674.0	704.5	722.3
40°	602.8	614.2	644.7	677.8	698.1
42.5°	568.4	581.1	614.2	653.6	674.0
45°	534.1	548.1	583.7	626.9	649.8
47.5°	498.5	515.0	551.9	600.2	623.1
50°	464.1	480.7	522.6	572.2	595.1
52.5°	428.5	447.6	492.1	543.0	567.2
55°	394.2	413.3	461.6	512.5	537.9
57.5°	359.9	378.9	429.8	482.0	507.4
60°	325.5	345.9	399.3	450.2	476.9
62.5°	291.2	312.8	367.5	419.6	445.1
65°	258.1	281.0	335.7	386.6	413.3
67.5°	226.4	250.5	303.9	353.5	380.2
70°	194.6	218.7	270.9	319.2	345.9
72.5°	164.0	188.2	239.1	282.3	302.6
75°	133.5	159.0	204.7	235.3	248.0
77.5°	104.3	129.7	169.1	189.5	203.5
80°	77.6	99.2	127.2	142.4	147.5
82.5°	53.4	71.2	89.0	92.8	95.4
85°	33.1	42.0	48.3	47.1	47.1
87.5°	15.3	16.5	14.0	10.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)