

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: P260482

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2835.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

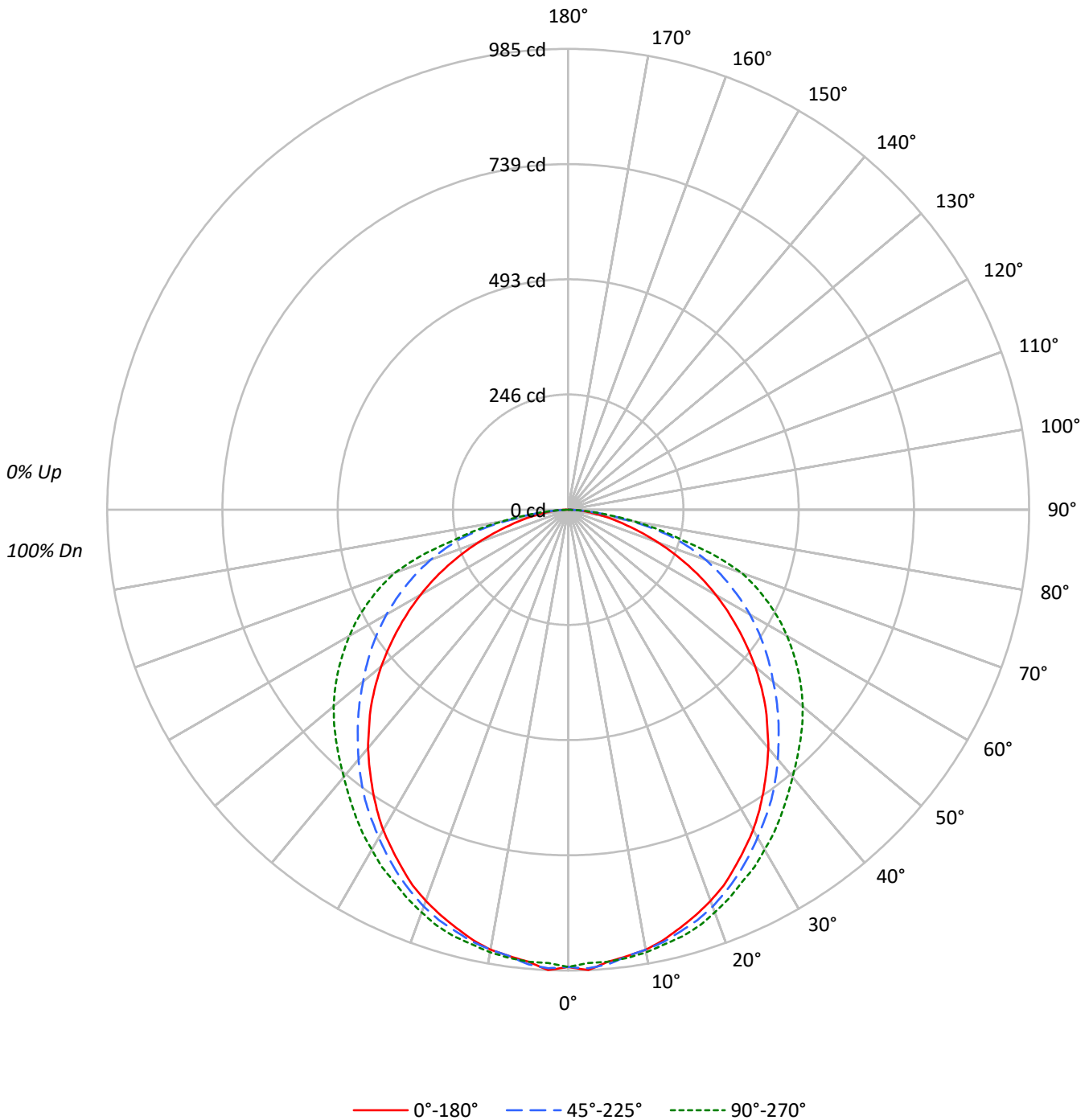
Input Watts (W): 30.318
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2630	2630	2630
5°	2620	2635	2620
10°	2610	2610	2625
15°	2577	2598	2629
20°	2548	2585	2622
25°	2502	2553	2608
30°	2456	2514	2607
35°	2394	2486	2609
40°	2337	2449	2620
45°	2269	2418	2667
50°	2183	2394	2738
55°	2078	2403	2814
60°	1961	2414	2907
65°	1809	2427	3011
70°	1603	2456	3102
75°	1360	2449	2643
80°	1130	1970	2201
85°	982	1328	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.3
10°-20°	263.4	9.3
20°-30°	396.3	14.0
30°-40°	474.9	16.8
40°-50°	495.3	17.5
50°-60°	461.1	16.3
60°-70°	374.4	13.2
70°-80°	225.6	8.0
80°-90°	51.7	1.8
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°	752.0	26.5
0°-40°	1226.9	43.3
0°-60°	2183.3	77.0
0°-90°	2835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	970	970	976	977	970	92
15°	925	929	932	938	944	261
25°	843	848	860	871	878	388
35°	729	738	757	779	794	456
45°	596	607	635	676	701	459
55°	443	462	512	568	600	396
65°	284	314	381	441	473	281
75°	131	174	236	250	254	141
85°	32	39	43	41	41	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.4	977.4	977.4	977.4	977.4
2.5°	984.9	983.0	981.1	975.5	969.9
5°	969.9	969.9	975.5	977.4	969.9
7.5°	962.5	962.5	962.5	969.9	966.2
10°	955.0	955.0	955.0	960.6	960.6
12.5°	941.9	943.8	945.6	947.5	951.2
15°	925.1	928.8	932.5	938.2	943.8
17.5°	908.3	912.0	919.5	925.1	932.5
20°	889.6	893.3	902.6	908.3	915.7
22.5°	869.0	870.9	882.1	889.6	898.9
25°	842.8	848.5	859.7	870.9	878.4
27.5°	816.7	822.3	835.4	850.3	861.5
30°	790.5	796.1	809.2	827.9	839.1
32.5°	760.6	768.1	783.0	805.5	818.6
35°	728.8	738.2	756.9	779.3	794.3
37.5°	697.1	706.4	727.0	755.0	770.0
40°	665.3	674.6	697.1	727.0	745.7
42.5°	629.8	641.0	665.3	700.8	723.2
45°	596.2	607.4	635.4	676.5	700.8
47.5°	558.8	571.9	603.6	650.4	678.4
50°	521.4	536.4	571.9	624.2	654.1
52.5°	482.2	499.0	542.0	596.2	627.9
55°	442.9	461.6	512.1	568.1	599.9
57.5°	403.7	424.2	480.3	538.2	570.0
60°	364.4	386.8	448.5	508.3	540.1
62.5°	325.2	349.5	414.9	474.7	508.3
65°	284.1	314.0	381.2	441.0	472.8
67.5°	242.9	278.5	347.6	405.5	435.4
70°	203.7	242.9	312.1	366.3	394.3
72.5°	166.3	207.4	274.7	321.4	332.7
75°	130.8	173.8	235.5	250.4	254.2
77.5°	100.9	140.2	186.9	190.6	200.0
80°	72.9	106.5	127.1	138.3	142.0
82.5°	50.5	72.9	84.1	86.0	87.8
85°	31.8	39.2	43.0	41.1	41.1
87.5°	16.8	15.0	13.1	9.3	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)