

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: P260481

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260481
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2740.0 lumens
Efficiency: N/A
Efficacy: 91.5 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

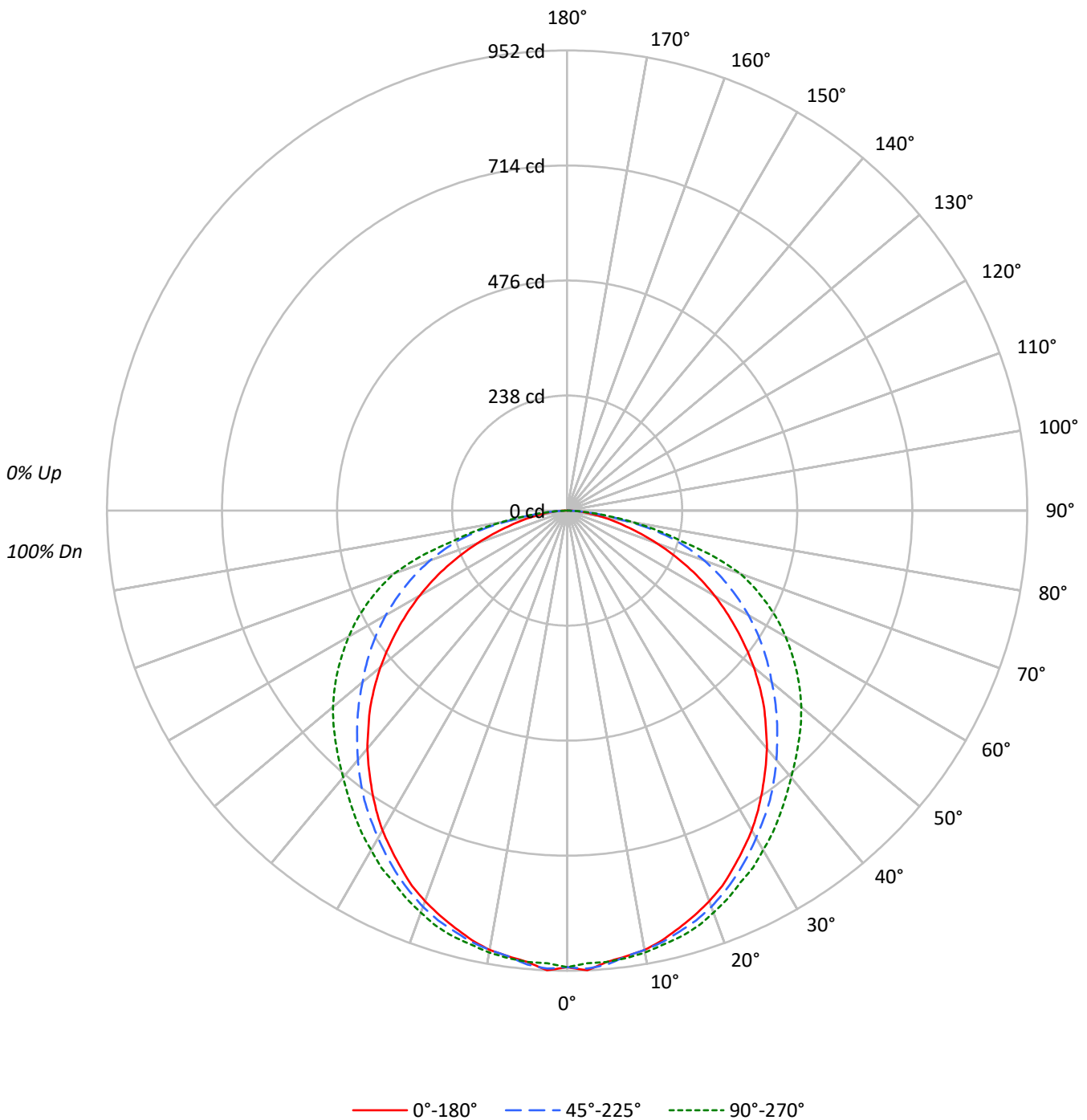
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2542	2542	2542
5°	2532	2547	2532
10°	2522	2522	2537
15°	2491	2511	2541
20°	2462	2498	2534
25°	2419	2467	2521
30°	2374	2430	2520
35°	2314	2403	2522
40°	2259	2367	2532
45°	2193	2337	2578
50°	2110	2314	2647
55°	2008	2322	2720
60°	1896	2333	2809
65°	1748	2346	2910
70°	1549	2373	2998
75°	1314	2366	2554
80°	1091	1903	2128
85°	948	1281	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.3
10°-20°	254.6	9.3
20°-30°	383.0	14.0
30°-40°	459.0	16.8
40°-50°	478.6	17.5
50°-60°	445.6	16.3
60°-70°	361.8	13.2
70°-80°	218.1	8.0
80°-90°	50.0	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°	726.8	26.5
0°-40°	1185.8	43.3
0°-60°	2110.1	77.0
0°-90°	2740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	937	937	943	945	937	89
15°	894	898	901	907	912	252
25°	815	820	831	842	849	375
35°	704	714	732	753	768	441
45°	576	587	614	654	677	444
55°	428	446	495	549	580	383
65°	274	303	368	426	457	272
75°	126	168	228	242	246	137
85°	31	38	42	40	40	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	951.9	950.1	948.3	942.8	937.4
5°	937.4	937.4	942.8	944.6	937.4
7.5°	930.2	930.2	930.2	937.4	933.8
10°	923.0	923.0	923.0	928.4	928.4
12.5°	910.3	912.1	913.9	915.7	919.4
15°	894.1	897.7	901.3	906.7	912.1
17.5°	877.8	881.4	888.7	894.1	901.3
20°	859.8	863.4	872.4	877.8	885.0
22.5°	839.9	841.7	852.5	859.8	868.8
25°	814.6	820.0	830.9	841.7	848.9
27.5°	789.3	794.7	807.4	821.8	832.7
30°	764.0	769.4	782.1	800.2	811.0
32.5°	735.1	742.4	756.8	778.5	791.1
35°	704.4	713.5	731.5	753.2	767.6
37.5°	673.7	682.7	702.6	729.7	744.2
40°	643.0	652.0	673.7	702.6	720.7
42.5°	608.7	619.5	643.0	677.3	699.0
45°	576.2	587.0	614.1	653.8	677.3
47.5°	540.1	552.7	583.4	628.6	655.7
50°	503.9	518.4	552.7	603.3	632.2
52.5°	466.0	482.3	523.8	576.2	606.9
55°	428.1	446.1	494.9	549.1	579.8
57.5°	390.1	410.0	464.2	520.2	550.9
60°	352.2	373.9	433.5	491.3	522.0
62.5°	314.3	337.8	401.0	458.8	491.3
65°	274.5	303.4	368.5	426.3	457.0
67.5°	234.8	269.1	336.0	391.9	420.8
70°	196.9	234.8	301.6	354.0	381.1
72.5°	160.8	200.5	265.5	310.7	321.5
75°	126.4	168.0	227.6	242.0	245.6
77.5°	97.5	135.5	180.6	184.2	193.3
80°	70.4	103.0	122.8	133.7	137.3
82.5°	48.8	70.4	81.3	83.1	84.9
85°	30.7	37.9	41.5	39.7	39.7
87.5°	16.3	14.4	12.6	9.0	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)