

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: P390434

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-L935-CD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P390434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-RDP-UNV-L935-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2897.2 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

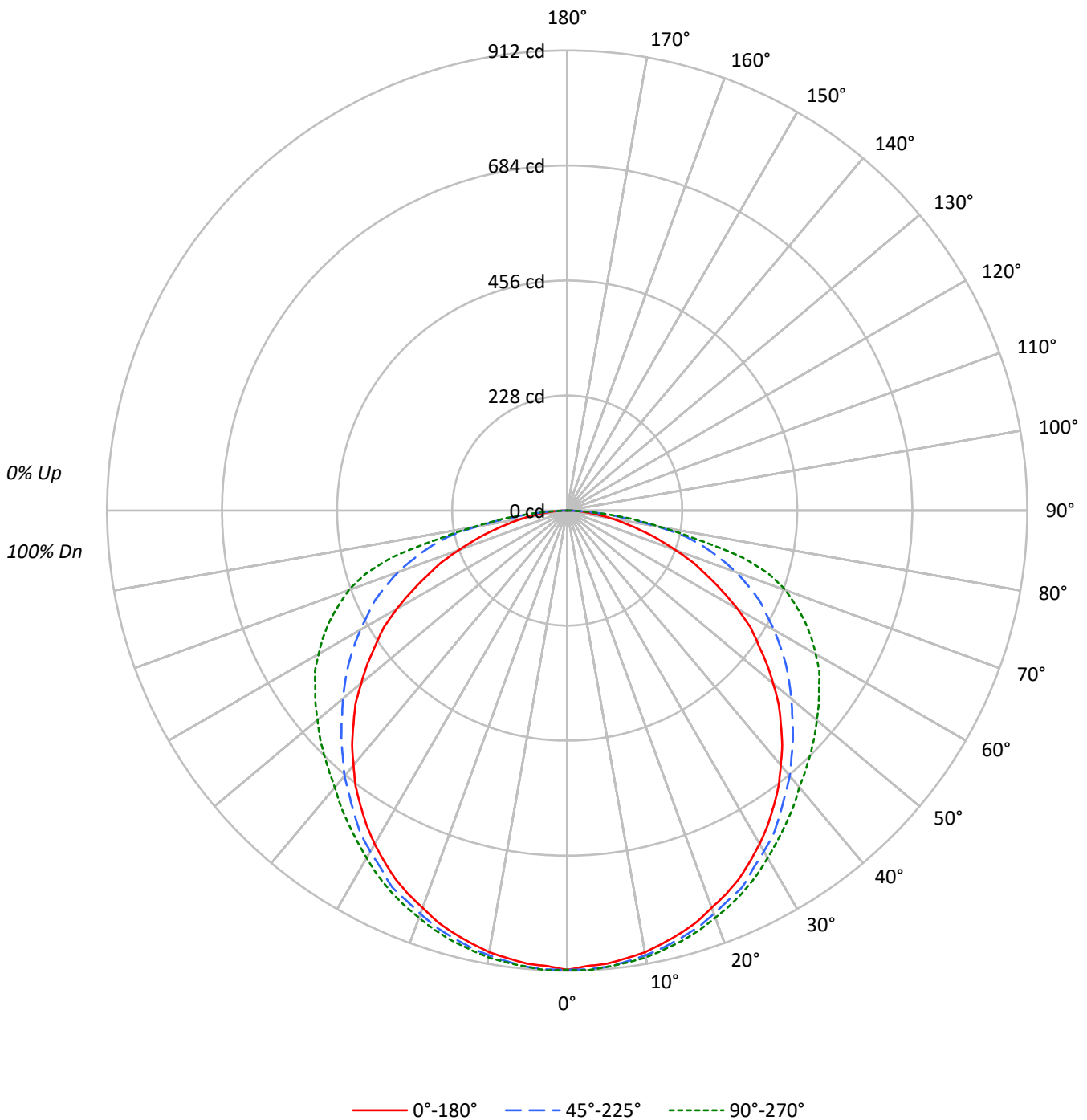
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2449	2449	2449
5°	2435	2452	2452
10°	2428	2446	2458
15°	2416	2440	2458
20°	2399	2435	2460
25°	2392	2443	2468
30°	2371	2424	2470
35°	2346	2416	2485
40°	2314	2411	2516
45°	2279	2409	2595
50°	2231	2427	2704
55°	2170	2480	2860
60°	2099	2546	3063
65°	1954	2674	3311
70°	1794	2800	3622
75°	1573	2948	3745
80°	1354	2808	2940
85°	1186	2041	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.0
10°-20°	247.2	8.5
20°-30°	377.1	13.0
30°-40°	460.5	15.9
40°-50°	492.3	17.0
50°-60°	475.2	16.4
60°-70°	409.1	14.1
70°-80°	276.8	9.6
80°-90°	73.0	2.5
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°	710.4	24.5
0°-40°	1170.8	40.4
0°-60°	2138.3	73.8
0°-90°	2897.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	902	904	908	908	908	86
15°	867	870	876	880	882	245
25°	806	810	823	827	831	371
35°	714	720	735	750	757	447
45°	599	610	633	665	682	462
55°	462	477	529	582	610	414
65°	307	337	420	486	520	305
75°	151	200	284	341	360	162
85°	38	53	66	68	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.1	910.1	910.1	910.1	910.1
2.5°	903.7	905.8	910.1	910.1	912.2
5°	901.5	903.7	907.9	907.9	907.9
7.5°	895.1	897.3	901.5	903.7	903.7
10°	888.7	890.9	895.1	897.3	899.4
12.5°	878.1	880.2	886.6	890.9	890.9
15°	867.4	869.6	876.0	880.2	882.4
17.5°	854.6	858.9	865.3	869.6	871.7
20°	837.6	841.9	850.4	856.8	858.9
22.5°	822.7	826.9	835.5	841.9	846.1
25°	805.6	809.9	822.7	826.9	831.2
27.5°	784.3	788.6	799.2	807.8	814.2
30°	763.0	767.3	780.1	790.7	795.0
32.5°	739.6	746.0	760.9	769.4	775.8
35°	714.0	720.4	735.3	750.2	756.6
37.5°	688.4	694.8	709.7	728.9	737.4
40°	658.6	667.1	686.3	711.9	716.1
42.5°	630.9	641.5	658.6	688.4	699.1
45°	598.9	609.5	633.0	665.0	682.0
47.5°	569.1	579.7	605.3	643.6	665.0
50°	532.8	547.7	579.7	624.5	645.8
52.5°	498.7	511.5	554.1	603.2	628.7
55°	462.5	477.4	528.6	581.8	609.5
57.5°	430.5	443.3	500.9	560.5	592.5
60°	390.0	407.1	473.1	537.1	569.1
62.5°	347.4	373.0	445.4	511.5	545.6
65°	306.9	336.7	419.9	485.9	520.0
67.5°	270.7	302.6	387.9	458.2	490.2
70°	228.0	268.5	355.9	424.1	460.4
72.5°	189.7	234.4	319.7	387.9	419.9
75°	151.3	200.3	283.5	341.0	360.2
77.5°	117.2	164.1	243.0	260.0	262.1
80°	87.4	130.0	181.2	183.3	189.7
82.5°	59.7	91.6	117.2	127.9	130.0
85°	38.4	53.3	66.1	68.2	72.5
87.5°	17.1	19.2	23.4	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)