

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: P390440

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-L950-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: P390440
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 85.8 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

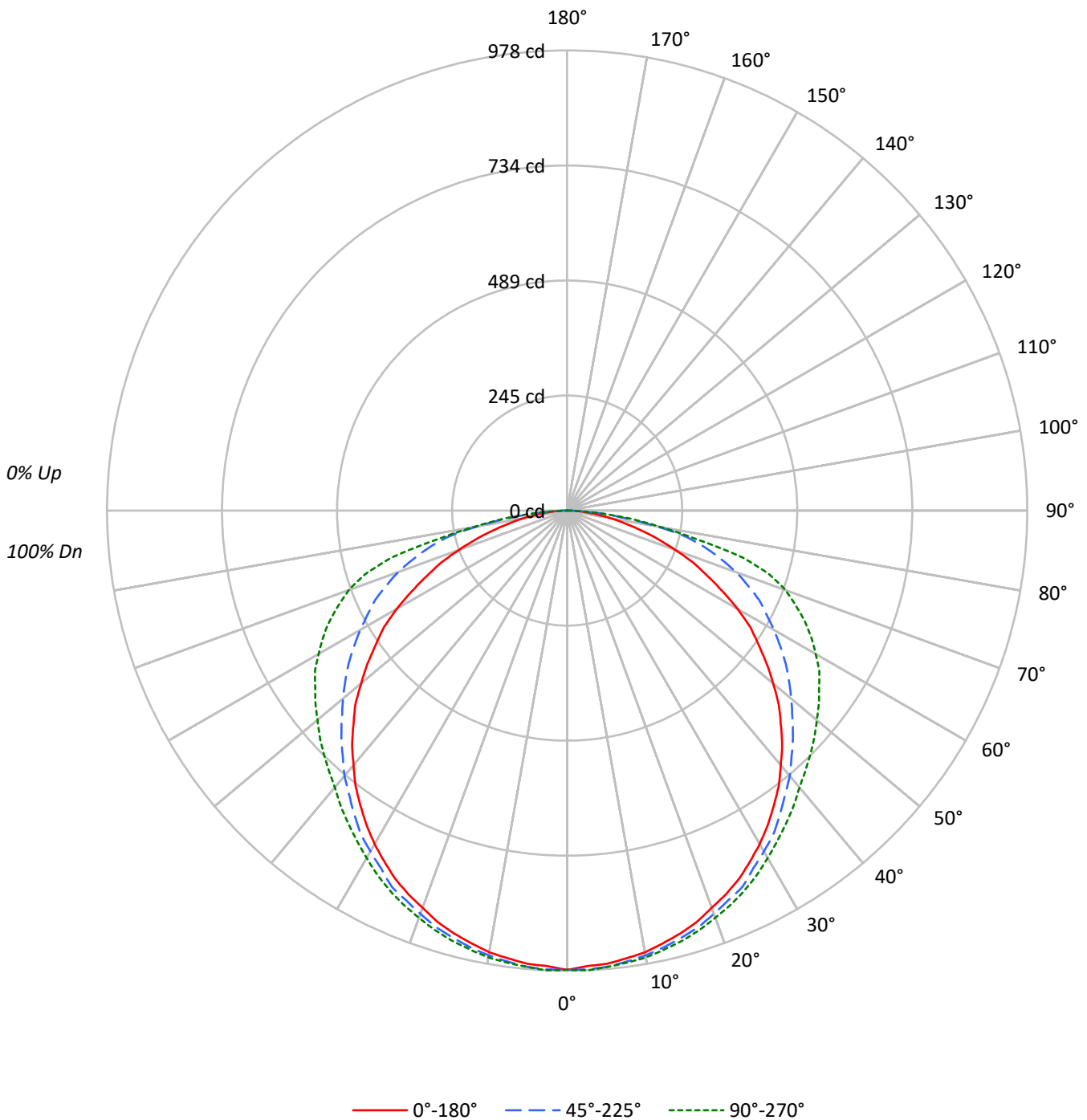
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2626	2626	2626
5°	2612	2630	2630
10°	2604	2623	2635
15°	2592	2617	2636
20°	2572	2612	2638
25°	2565	2620	2647
30°	2543	2599	2649
35°	2515	2590	2666
40°	2481	2585	2698
45°	2444	2583	2783
50°	2392	2603	2899
55°	2327	2659	3067
60°	2251	2731	3285
65°	2096	2867	3551
70°	1924	3003	3884
75°	1687	3161	4016
80°	1452	3011	3152
85°	1269	2189	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.0
10°-20°	265.1	8.5
20°-30°	404.4	13.0
30°-40°	493.8	15.9
40°-50°	528.0	17.0
50°-60°	509.6	16.4
60°-70°	438.7	14.1
70°-80°	296.8	9.6
80°-90°	78.3	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°	761.8	24.5
0°-40°	1255.6	40.4
0°-60°	2293.2	73.8
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	967	969	974	974	974	92
15°	930	932	939	944	946	262
25°	864	868	882	887	891	398
35°	766	772	788	804	811	479
45°	642	654	679	713	731	496
55°	496	512	567	624	654	444
65°	329	361	450	521	558	327
75°	162	215	304	366	386	174
85°	41	57	71	73	78	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.0	976.0	976.0	976.0	976.0
2.5°	969.1	971.4	976.0	976.0	978.2
5°	966.8	969.1	973.7	973.7	973.7
7.5°	960.0	962.2	966.8	969.1	969.1
10°	953.1	955.4	960.0	962.2	964.5
12.5°	941.7	944.0	950.8	955.4	955.4
15°	930.3	932.5	939.4	944.0	946.2
17.5°	916.5	921.1	928.0	932.5	934.8
20°	898.3	902.8	912.0	918.8	921.1
22.5°	882.3	886.8	896.0	902.8	907.4
25°	864.0	868.5	882.3	886.8	891.4
27.5°	841.1	845.7	857.1	866.3	873.1
30°	818.3	822.8	836.5	848.0	852.5
32.5°	793.1	800.0	816.0	825.1	832.0
35°	765.7	772.5	788.5	804.5	811.4
37.5°	738.3	745.1	761.1	781.7	790.8
40°	706.3	715.4	736.0	763.4	768.0
42.5°	676.5	688.0	706.3	738.3	749.7
45°	642.3	653.7	678.8	713.1	731.4
47.5°	610.3	621.7	649.1	690.3	713.1
50°	571.4	587.4	621.7	669.7	692.5
52.5°	534.8	548.6	594.3	646.8	674.3
55°	496.0	512.0	566.8	624.0	653.7
57.5°	461.7	475.4	537.1	601.1	635.4
60°	418.3	436.6	507.4	576.0	610.3
62.5°	372.6	400.0	477.7	548.6	585.1
65°	329.1	361.1	450.3	521.1	557.7
67.5°	290.3	324.6	416.0	491.4	525.7
70°	244.6	288.0	381.7	454.8	493.7
72.5°	203.4	251.4	342.8	416.0	450.3
75°	162.3	214.8	304.0	365.7	386.3
77.5°	125.7	176.0	260.6	278.8	281.1
80°	93.7	139.4	194.3	196.6	203.4
82.5°	64.0	98.3	125.7	137.1	139.4
85°	41.1	57.1	70.9	73.1	77.7
87.5°	18.3	20.6	25.1	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)