

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: P387888

Luminaire Tested: **22CZ2-34VHE-SQR-UNV-L930-CD1-SDWPD1-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: P387888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-SQR-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2781.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

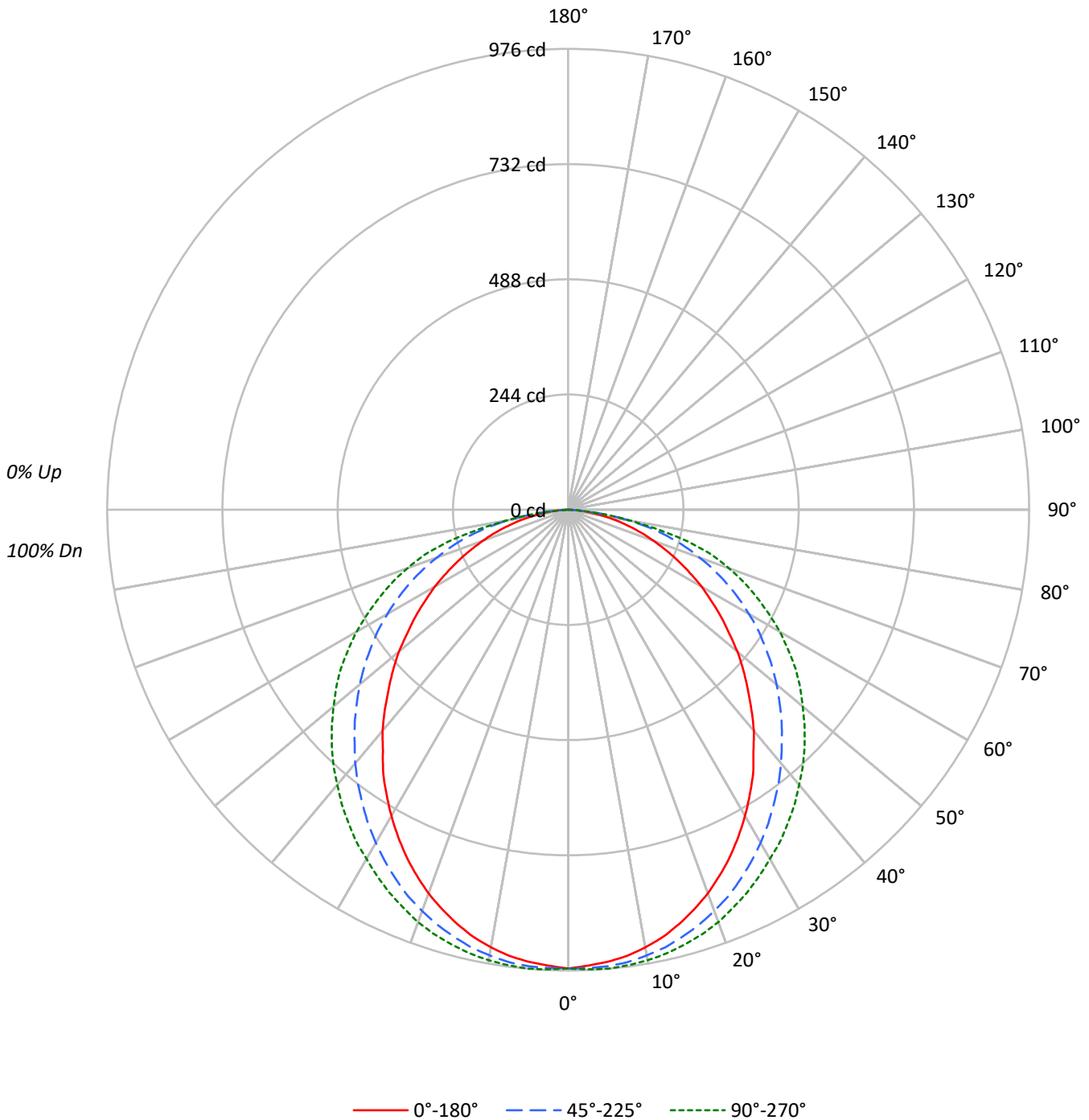
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	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	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	2615	2615	2615
5°	2596	2621	2636
10°	2572	2619	2648
15°	2530	2608	2656
20°	2477	2590	2662
25°	2407	2564	2658
30°	2326	2531	2654
35°	2242	2494	2663
40°	2147	2463	2672
45°	2045	2432	2693
50°	1957	2410	2714
55°	1852	2391	2756
60°	1755	2380	2785
65°	1640	2362	2808
70°	1506	2327	2847
75°	1359	2264	2746
80°	1167	2005	2066
85°	939	1183	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.3
10°-20°	263.4	9.5
20°-30°	395.6	14.2
30°-40°	471.8	17.0
40°-50°	487.8	17.5
50°-60°	448.5	16.1
60°-70°	357.0	12.8
70°-80°	218.1	7.8
80°-90°	47.4	1.7
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°	751.1	27.0
0°-40°	1222.9	44.0
0°-60°	2159.1	77.6
0°-90°	2781.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2781.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	961	964	970	974	976	91
15°	908	919	936	949	953	256
25°	811	830	864	887	895	373
35°	683	712	759	799	811	426
45°	537	576	639	690	708	416
55°	395	438	510	568	588	353
65°	258	301	371	422	441	255
75°	131	169	218	256	264	139
85°	30	37	38	33	30	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.7	971.7	971.7	971.7	971.7
2.5°	966.4	967.8	971.7	974.4	974.4
5°	961.2	963.8	970.4	974.4	975.7
7.5°	953.2	957.2	966.4	971.7	973.0
10°	941.3	946.6	958.5	966.4	969.1
12.5°	926.8	934.7	949.3	959.8	962.5
15°	908.3	918.9	936.1	949.3	953.2
17.5°	887.2	900.4	921.5	937.4	942.7
20°	864.8	878.0	904.4	922.9	929.5
22.5°	838.4	855.5	885.9	907.0	912.3
25°	810.6	830.4	863.5	887.2	895.1
27.5°	780.3	804.0	839.7	868.7	875.3
30°	748.6	773.7	814.6	846.3	854.2
32.5°	715.6	744.6	788.2	823.8	834.4
35°	682.6	711.6	759.2	798.8	810.6
37.5°	644.3	678.6	731.4	772.4	786.9
40°	611.3	644.3	701.1	745.9	760.5
42.5°	574.3	610.0	669.4	718.2	735.4
45°	537.3	575.6	639.0	690.5	707.7
47.5°	503.0	541.3	607.3	661.5	678.6
50°	467.4	507.0	575.6	631.1	648.2
52.5°	429.1	472.7	543.9	599.4	619.2
55°	394.8	438.3	509.6	567.7	587.5
57.5°	359.1	404.0	477.9	533.4	551.9
60°	326.1	369.7	442.3	496.4	517.5
62.5°	290.5	335.3	406.6	459.5	479.3
65°	257.5	301.0	371.0	422.5	441.0
67.5°	224.4	268.0	334.0	382.9	404.0
70°	191.4	235.0	295.7	343.3	361.8
72.5°	162.4	200.7	258.8	302.3	319.5
75°	130.7	169.0	217.8	256.1	264.1
77.5°	101.7	136.0	176.9	194.1	196.7
80°	75.3	101.7	129.4	133.3	133.3
82.5°	50.2	70.0	80.5	81.9	80.5
85°	30.4	37.0	38.3	33.0	30.4
87.5°	10.6	10.6	6.6	4.0	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)