

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: P387842

Luminaire Tested: **22CZ2-32-SQR-UNV-L930-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: P387842
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: 22CZ2-32-SQR-UNV-L930-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

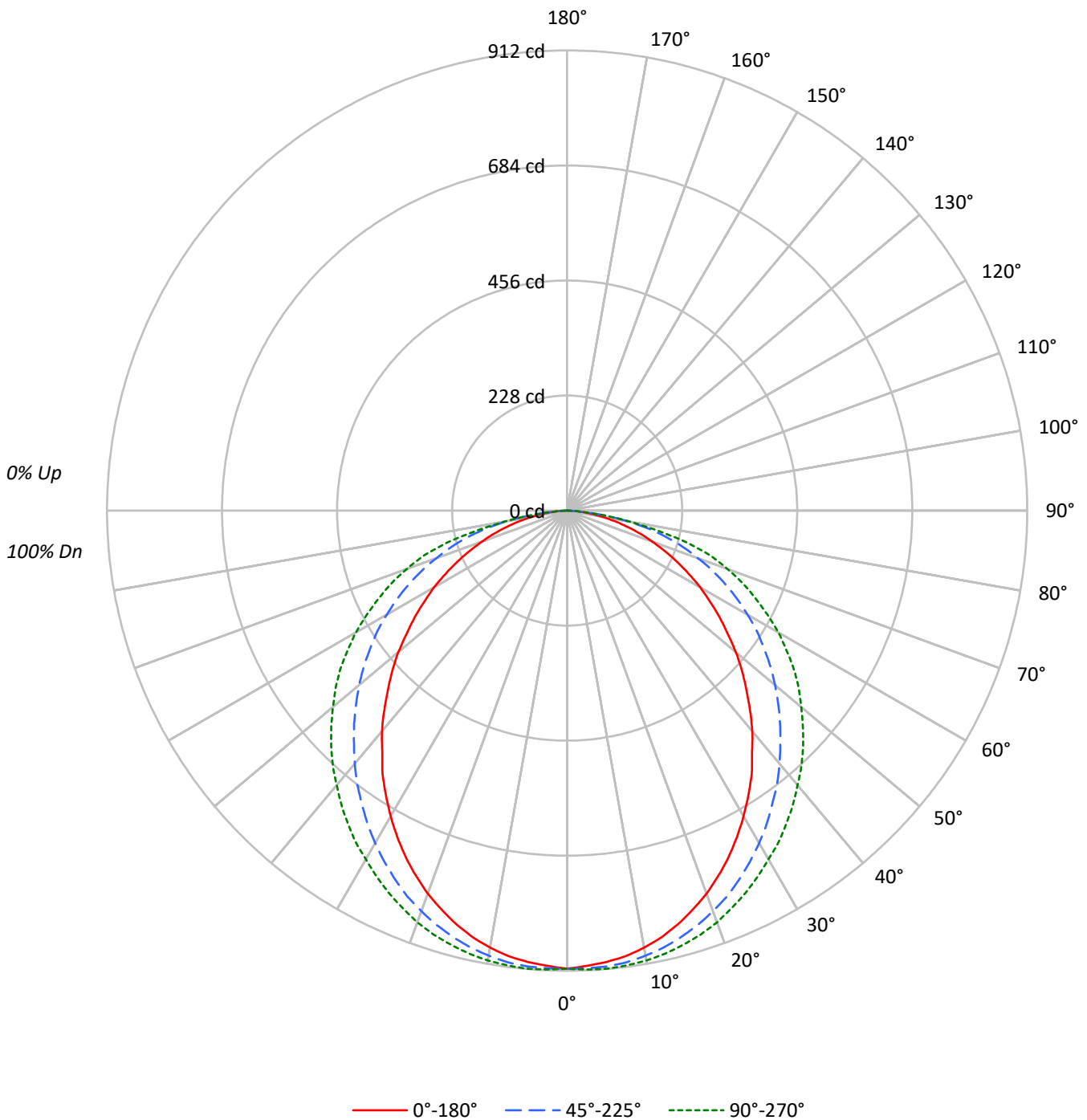
Lumens per Lamp: N/A
Luminaire Lumens: 2599.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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°	2443	2443	2443
5°	2426	2449	2462
10°	2403	2447	2474
15°	2364	2437	2481
20°	2314	2420	2487
25°	2249	2395	2483
30°	2173	2365	2480
35°	2095	2330	2488
40°	2006	2301	2496
45°	1911	2272	2516
50°	1828	2251	2536
55°	1730	2234	2575
60°	1640	2224	2603
65°	1531	2207	2623
70°	1408	2174	2659
75°	1269	2116	2565
80°	1089	1874	1931
85°	877	1105	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.3
10°-20°	246.1	9.5
20°-30°	369.6	14.2
30°-40°	440.8	17.0
40°-50°	455.8	17.5
50°-60°	419.0	16.1
60°-70°	333.6	12.8
70°-80°	203.8	7.8
80°-90°	44.3	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°	701.8	27.0
0°-40°	1142.6	44.0
0°-60°	2017.3	77.6
0°-90°	2599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	898	900	907	910	912	85
15°	849	859	875	887	891	239
25°	757	776	807	829	836	348
35°	638	665	709	746	757	398
45°	502	538	597	645	661	388
55°	369	410	476	530	549	330
65°	240	281	347	395	412	238
75°	122	158	204	239	247	130
85°	28	34	36	31	28	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.9	907.9	907.9	907.9	907.9
2.5°	903.0	904.2	907.9	910.4	910.4
5°	898.0	900.5	906.7	910.4	911.6
7.5°	890.6	894.3	903.0	907.9	909.1
10°	879.5	884.5	895.6	903.0	905.4
12.5°	866.0	873.4	886.9	896.8	899.3
15°	848.7	858.6	874.6	886.9	890.6
17.5°	828.9	841.3	861.0	875.8	880.8
20°	808.0	820.3	845.0	862.3	868.4
22.5°	783.3	799.3	827.7	847.4	852.4
25°	757.4	775.9	806.7	828.9	836.3
27.5°	729.0	751.2	784.5	811.7	817.8
30°	699.4	722.9	761.1	790.7	798.1
32.5°	668.6	695.7	736.4	769.7	779.6
35°	637.7	664.9	709.3	746.3	757.4
37.5°	602.0	634.0	683.4	721.6	735.2
40°	571.1	602.0	655.0	697.0	710.5
42.5°	536.6	569.9	625.4	671.1	687.1
45°	502.1	537.8	597.0	645.1	661.2
47.5°	470.0	505.8	567.4	618.0	634.0
50°	436.7	473.7	537.8	589.6	605.7
52.5°	400.9	441.6	508.2	560.0	578.5
55°	368.8	409.5	476.2	530.4	548.9
57.5°	335.5	377.5	446.5	498.4	515.6
60°	304.7	345.4	413.2	463.8	483.6
62.5°	271.4	313.3	379.9	429.3	447.8
65°	240.5	281.2	346.6	394.7	412.0
67.5°	209.7	250.4	312.1	357.7	377.5
70°	178.9	219.6	276.3	320.7	338.0
72.5°	151.7	187.5	241.8	282.5	298.5
75°	122.1	157.9	203.5	239.3	246.7
77.5°	95.0	127.1	165.3	181.3	183.8
80°	70.3	95.0	120.9	124.6	124.6
82.5°	46.9	65.4	75.2	76.5	75.2
85°	28.4	34.5	35.8	30.8	28.4
87.5°	9.9	9.9	6.2	3.7	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)