

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: P387851

Luminaire Tested: **22CZ2-32-SQR-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: P387851
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

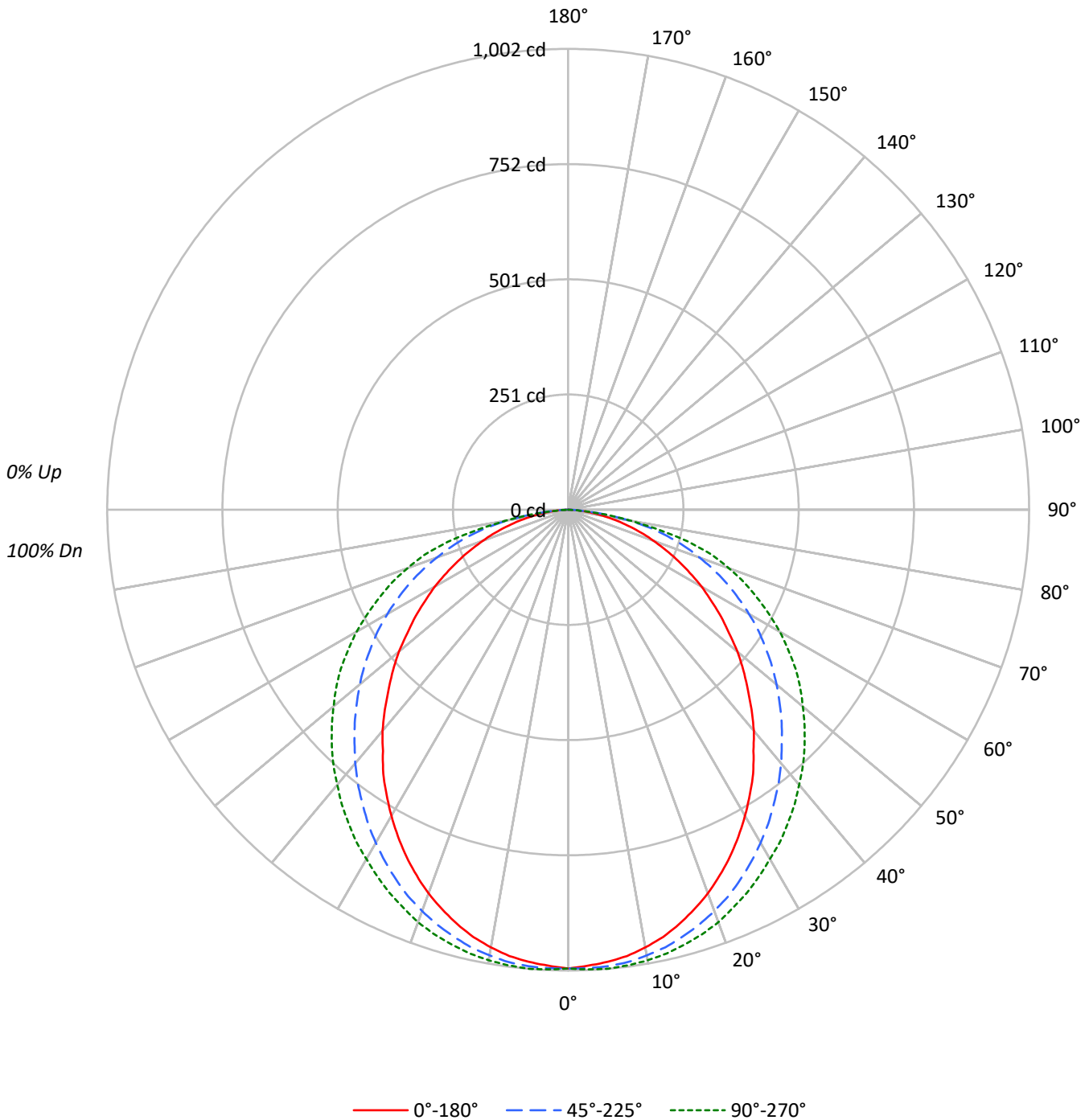
Lumens per Lamp: N/A
Luminaire Lumens: 2856.2 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2685	2685	2685
5°	2666	2692	2706
10°	2641	2689	2719
15°	2598	2678	2727
20°	2543	2659	2733
25°	2472	2632	2729
30°	2388	2599	2725
35°	2303	2561	2734
40°	2205	2529	2743
45°	2100	2497	2765
50°	2009	2475	2786
55°	1901	2455	2830
60°	1802	2444	2860
65°	1683	2425	2883
70°	1547	2389	2922
75°	1395	2326	2819
80°	1198	2060	2122
85°	963	1213	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.3
10°-20°	270.4	9.5
20°-30°	406.2	14.2
30°-40°	484.4	17.0
40°-50°	500.9	17.5
50°-60°	460.5	16.1
60°-70°	366.6	12.8
70°-80°	224.0	7.8
80°-90°	48.7	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°	771.2	27.0
0°-40°	1255.6	44.0
0°-60°	2217.0	77.6
0°-90°	2856.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	987	990	996	1000	1002	94
15°	933	944	961	975	979	263
25°	832	853	887	911	919	383
35°	701	731	780	820	832	437
45°	552	591	656	709	727	427
55°	405	450	523	583	603	363
65°	264	309	381	434	453	262
75°	134	174	224	263	271	143
85°	31	38	39	34	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.7	997.7	997.7	997.7	997.7
2.5°	992.3	993.7	997.7	1000.5	1000.5
5°	986.9	989.6	996.4	1000.5	1001.8
7.5°	978.8	982.8	992.3	997.7	999.1
10°	966.6	972.0	984.2	992.3	995.0
12.5°	951.6	959.8	974.7	985.5	988.3
15°	932.7	943.5	961.1	974.7	978.8
17.5°	911.0	924.5	946.2	962.5	967.9
20°	887.9	901.5	928.6	947.6	954.4
22.5°	860.8	878.4	909.6	931.3	936.7
25°	832.4	852.7	886.6	911.0	919.1
27.5°	801.2	825.6	862.2	892.0	898.8
30°	768.6	794.4	836.4	869.0	877.1
32.5°	734.7	764.6	809.3	845.9	856.8
35°	700.9	730.7	779.5	820.2	832.4
37.5°	661.5	696.8	751.0	793.0	808.0
40°	627.7	661.5	719.8	765.9	780.8
42.5°	589.7	626.3	687.3	737.5	755.1
45°	551.7	591.1	656.1	709.0	726.6
47.5°	516.5	555.8	623.6	679.2	696.8
50°	479.9	520.6	591.1	648.0	665.6
52.5°	440.6	485.3	558.5	615.5	635.8
55°	405.3	450.1	523.3	582.9	603.3
57.5°	368.7	414.8	490.7	547.7	566.7
60°	334.8	379.6	454.1	509.7	531.4
62.5°	298.2	344.3	417.5	471.8	492.1
65°	264.3	309.1	380.9	433.8	452.8
67.5°	230.5	275.2	343.0	393.1	414.8
70°	196.6	241.3	303.7	352.5	371.4
72.5°	166.7	206.1	265.7	310.4	328.1
75°	134.2	173.5	223.7	263.0	271.1
77.5°	104.4	139.6	181.7	199.3	202.0
80°	77.3	104.4	132.9	136.9	136.9
82.5°	51.5	71.8	82.7	84.0	82.7
85°	31.2	38.0	39.3	33.9	31.2
87.5°	10.8	10.8	6.8	4.1	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)