

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: P388254

Luminaire Tested: **22CZ2-29VHE-UNV-L950-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: P388254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29VHE-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.8 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

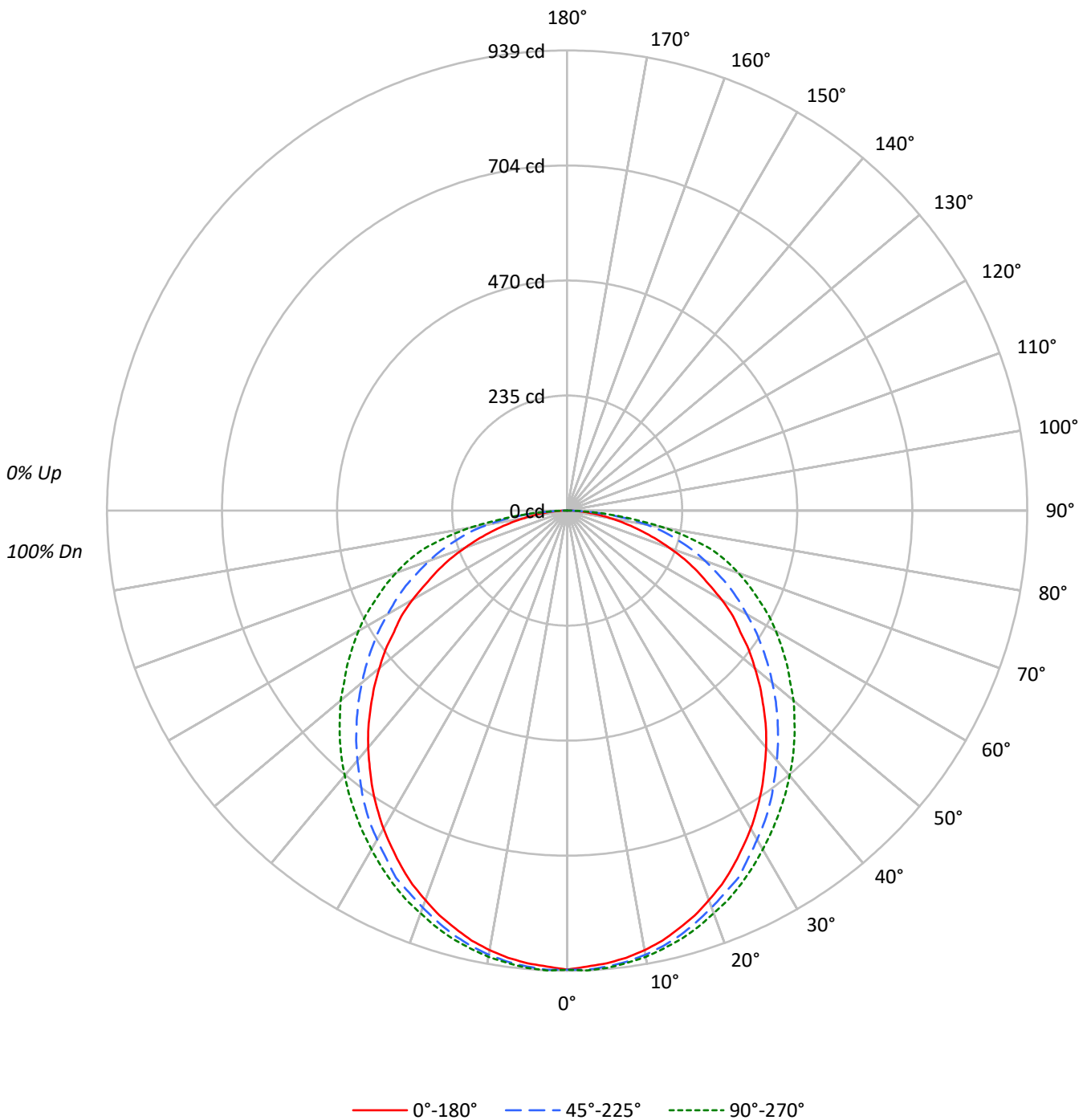
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P388254

CATALOG NUMBER: 22CZ2-29VHE-UNV-L950-CD1-SDWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P388254

CATALOG NUMBER: 22CZ2-29VHE-UNV-L950-CD1-SDWPD1-U

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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2521	2521	2521
5°	2505	2523	2530
10°	2489	2515	2526
15°	2459	2496	2519
20°	2422	2469	2504
25°	2379	2455	2495
30°	2329	2409	2481
35°	2276	2378	2476
40°	2219	2338	2481
45°	2156	2311	2497
50°	2094	2287	2525
55°	2023	2277	2569
60°	1962	2276	2648
65°	1864	2313	2745
70°	1739	2357	2922
75°	1593	2438	3157
80°	1387	2541	3109
85°	1213	2260	2470



TEST NUMBER: P388254

CATALOG NUMBER: 22CZ2-29VHE-UNV-L950-CD1-SDWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.2
10°-20°	252.3	9.2
20°-30°	378.8	13.7
30°-40°	452.6	16.4
40°-50°	470.6	17.1
50°-60°	436.2	15.8
60°-70°	357.8	13.0
70°-80°	241.9	8.8
80°-90°	76.0	2.8
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°	719.7	26.1
0°-40°	1172.3	42.6
0°-60°	2079.1	75.5
0°-90°	2754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	927	928	934	935	937	88
15°	882	886	896	901	904	249
25°	801	808	827	836	840	369
35°	693	702	724	746	754	433
45°	567	578	607	642	656	438
55°	431	445	485	529	548	387
65°	293	309	363	411	431	289
75°	153	179	234	282	304	162
85°	39	54	73	81	80	45
90°	0	0	0	0	0	



TEST NUMBER: P388254

CATALOG NUMBER: 22CZ2-29VHE-UNV-L950-CD1-SDWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.7	936.7	936.7	936.7	936.7
2.5°	931.3	934.0	938.0	939.4	939.4
5°	927.2	928.5	934.0	935.3	936.7
7.5°	920.4	923.1	928.5	929.9	931.3
10°	910.9	913.6	920.4	923.1	924.5
12.5°	898.7	901.4	909.6	913.6	915.0
15°	882.5	886.5	896.0	901.4	904.1
17.5°	866.2	870.3	879.7	887.9	890.6
20°	845.9	855.3	862.1	873.0	874.3
22.5°	825.5	831.0	843.2	854.0	859.4
25°	801.1	807.9	826.9	836.4	840.4
27.5°	775.4	784.9	799.8	814.7	820.1
30°	749.6	756.4	775.4	793.0	798.4
32.5°	721.2	730.6	751.0	768.6	776.7
35°	692.7	702.2	723.9	745.6	753.7
37.5°	661.5	672.4	694.0	719.8	730.6
40°	631.7	639.8	665.6	696.8	706.2
42.5°	600.5	610.0	637.1	671.0	681.8
45°	566.6	577.5	607.3	642.5	656.1
47.5°	534.1	544.9	577.5	612.7	629.0
50°	500.2	513.8	546.3	587.0	603.2
52.5°	467.7	479.9	516.5	558.5	573.4
55°	431.1	444.6	485.3	528.7	547.6
57.5°	401.2	410.7	455.5	500.2	519.2
60°	364.6	376.8	422.9	470.4	492.1
62.5°	325.3	345.7	393.1	441.9	463.6
65°	292.8	309.1	363.3	410.7	431.1
67.5°	258.9	276.5	329.4	379.6	402.6
70°	221.0	244.0	299.6	349.7	371.4
72.5°	187.1	211.5	268.4	317.2	340.2
75°	153.2	178.9	234.5	282.0	303.6
77.5°	120.6	149.1	203.3	239.9	253.5
80°	89.5	116.6	164.0	189.8	200.6
82.5°	62.4	85.4	120.6	134.2	136.9
85°	39.3	54.2	73.2	81.3	80.0
87.5°	17.6	21.7	27.1	29.8	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)