

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: P387825

Luminaire Tested: **22CZ2-29VHE-SQR-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: P387825
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: 22CZ2-29VHE-SQR-UNV-L950-CD1-SDWPD1-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: 2645.7 lumens
Efficiency: N/A
Efficacy: 121.9 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

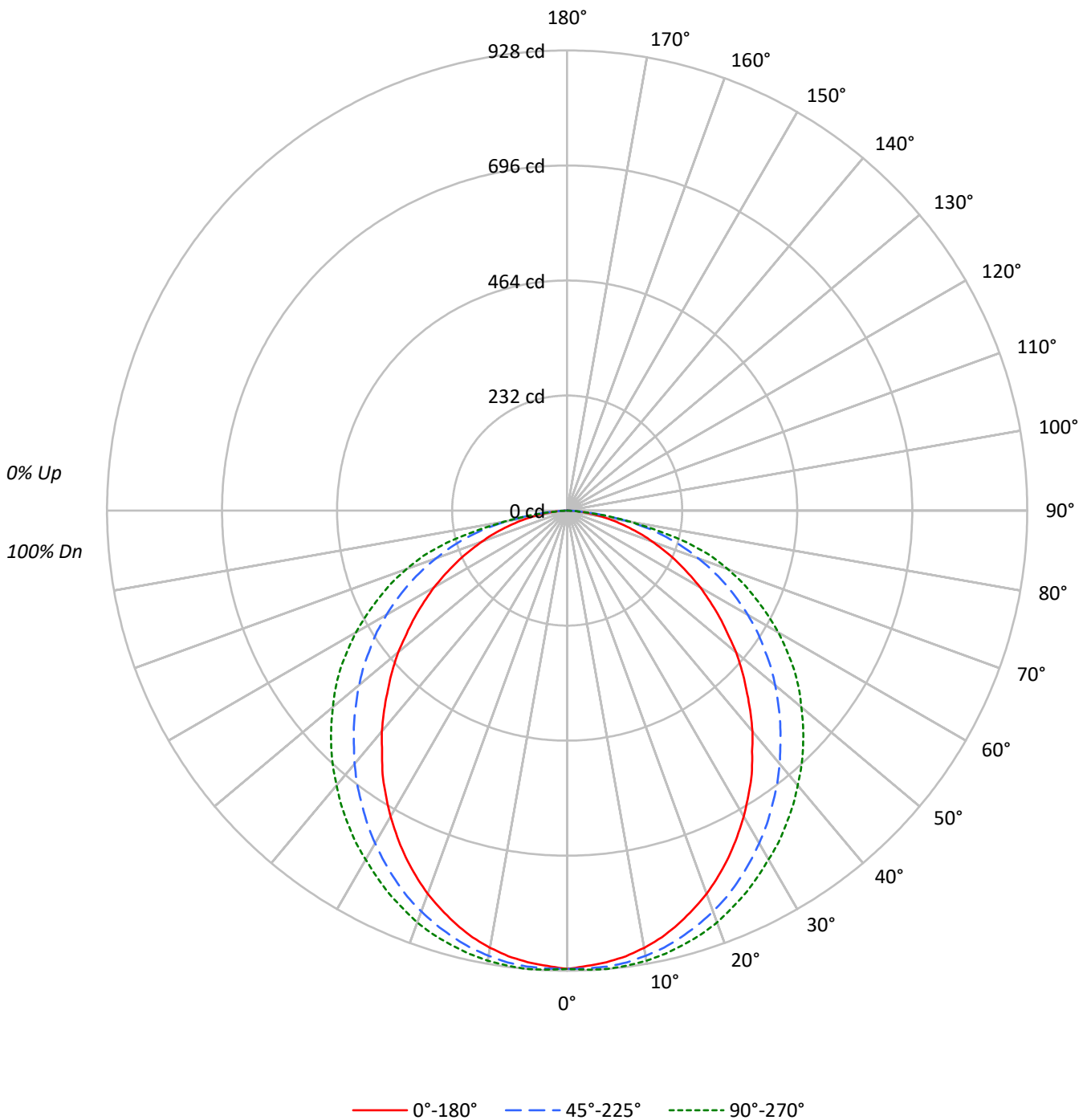
Input Watts (W): 21.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2487	2487	2487
5°	2469	2493	2507
10°	2446	2491	2519
15°	2407	2480	2526
20°	2355	2463	2531
25°	2289	2438	2528
30°	2212	2408	2524
35°	2133	2372	2533
40°	2042	2342	2541
45°	1945	2313	2562
50°	1861	2292	2581
55°	1762	2274	2622
60°	1669	2264	2649
65°	1559	2247	2670
70°	1433	2213	2707
75°	1292	2154	2611
80°	1110	1908	1965
85°	892	1124	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.3
10°-20°	250.5	9.5
20°-30°	376.2	14.2
30°-40°	448.7	17.0
40°-50°	463.9	17.5
50°-60°	426.5	16.1
60°-70°	339.6	12.8
70°-80°	207.5	7.8
80°-90°	45.1	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°	714.4	27.0
0°-40°	1163.1	44.0
0°-60°	2053.6	77.6
0°-90°	2645.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	914	917	923	927	928	87
15°	864	874	890	903	907	243
25°	771	790	821	844	851	355
35°	649	677	722	760	771	405
45°	511	548	608	657	673	395
55°	376	417	485	540	559	336
65°	245	286	353	402	419	243
75°	124	161	207	244	251	132
85°	29	35	36	31	29	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.2	924.2	924.2	924.2	924.2
2.5°	919.2	920.4	924.2	926.7	926.7
5°	914.2	916.7	923.0	926.7	928.0
7.5°	906.6	910.4	919.2	924.2	925.5
10°	895.3	900.3	911.6	919.2	921.7
12.5°	881.5	889.0	902.9	912.9	915.4
15°	863.9	874.0	890.3	902.9	906.6
17.5°	843.8	856.4	876.5	891.6	896.6
20°	822.5	835.1	860.2	877.7	884.0
22.5°	797.4	813.7	842.6	862.7	867.7
25°	771.0	789.8	821.2	843.8	851.4
27.5°	742.1	764.7	798.6	826.3	832.5
30°	712.0	735.8	774.8	804.9	812.4
32.5°	680.6	708.2	749.7	783.6	793.6
35°	649.2	676.8	722.0	759.7	771.0
37.5°	612.8	645.4	695.7	734.6	748.4
40°	581.4	612.8	666.8	709.5	723.3
42.5°	546.2	580.1	636.6	683.1	699.4
45°	511.1	547.5	607.8	656.7	673.1
47.5°	478.4	514.8	577.6	629.1	645.4
50°	444.5	482.2	547.5	600.2	616.6
52.5°	408.1	449.5	517.4	570.1	588.9
55°	375.5	416.9	484.7	540.0	558.8
57.5°	341.6	384.2	454.6	507.3	524.9
60°	310.2	351.6	420.7	472.1	492.2
62.5°	276.3	319.0	386.8	437.0	455.8
65°	244.9	286.3	352.9	401.8	419.4
67.5°	213.5	254.9	317.7	364.2	384.2
70°	182.1	223.5	281.3	326.5	344.1
72.5°	154.5	190.9	246.1	287.6	303.9
75°	124.3	160.7	207.2	243.6	251.1
77.5°	96.7	129.3	168.3	184.6	187.1
80°	71.6	96.7	123.1	126.8	126.8
82.5°	47.7	66.6	76.6	77.9	76.6
85°	28.9	35.2	36.4	31.4	28.9
87.5°	10.0	10.0	6.3	3.8	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)