

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: P387730

Luminaire Tested: **22CZ2-24-SQR-UNV-L950-CD1-SWPD1-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: P387730
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: 22CZ2-24-SQR-UNV-L950-CD1-SWPD1-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: 2106.9 lumens
Efficiency: N/A
Efficacy: 96.2 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

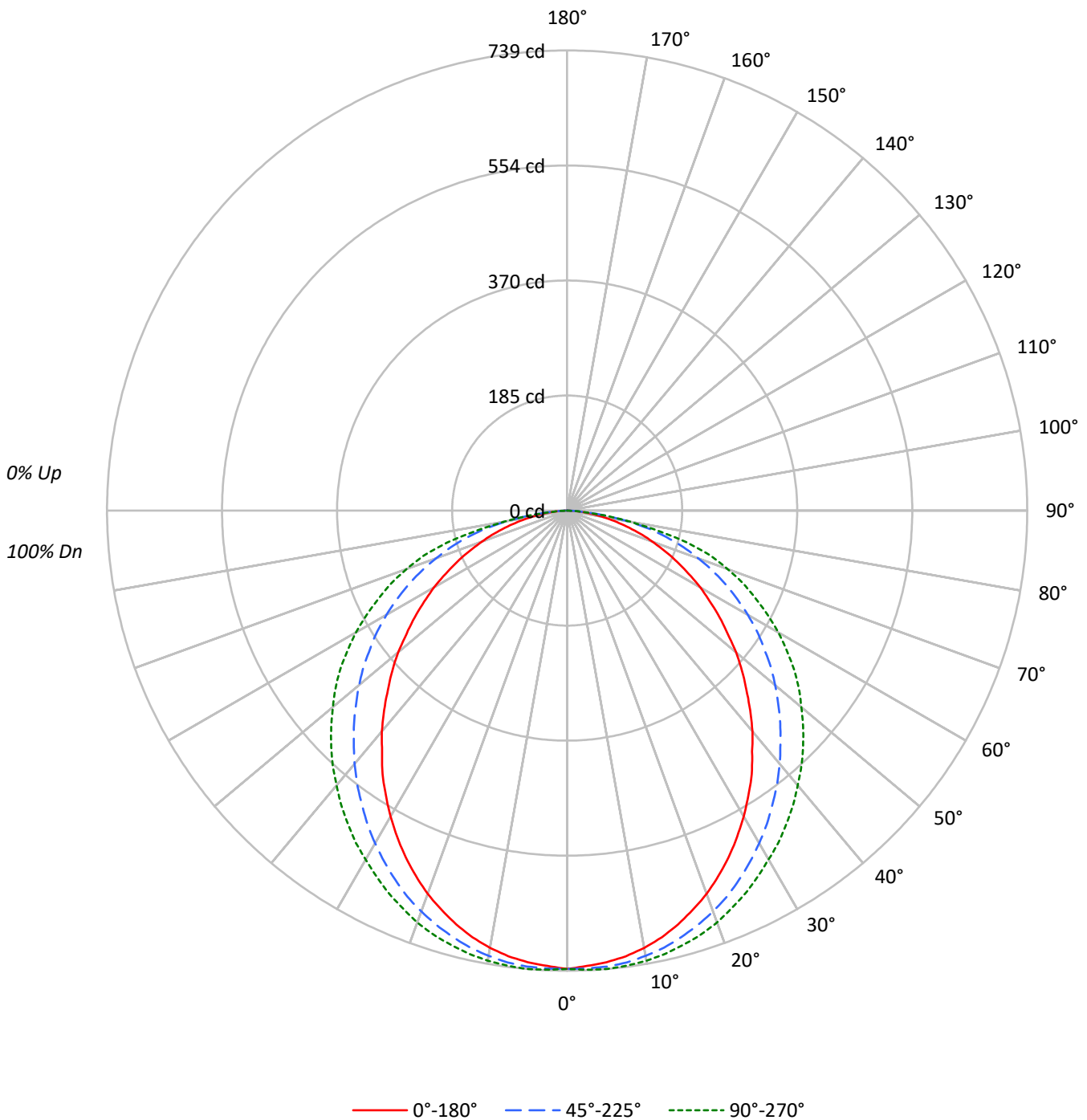
Input Watts (W): 21.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1981	1981	1981
5°	1967	1985	1996
10°	1948	1984	2006
15°	1917	1975	2011
20°	1876	1962	2016
25°	1823	1942	2013
30°	1762	1917	2010
35°	1698	1889	2017
40°	1626	1865	2023
45°	1549	1842	2040
50°	1482	1825	2056
55°	1403	1811	2088
60°	1329	1803	2110
65°	1242	1789	2127
70°	1141	1762	2156
75°	1029	1716	2079
80°	883	1519	1565
85°	710	895	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.3
10°-20°	199.5	9.5
20°-30°	299.6	14.2
30°-40°	357.3	17.0
40°-50°	369.5	17.5
50°-60°	339.7	16.1
60°-70°	270.4	12.8
70°-80°	165.2	7.8
80°-90°	35.9	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°	568.9	27.0
0°-40°	926.2	44.0
0°-60°	1635.4	77.6
0°-90°	2106.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	728	730	735	738	739	69
15°	688	696	709	719	722	194
25°	614	629	654	672	678	282
35°	517	539	575	605	614	323
45°	407	436	484	523	536	315
55°	299	332	386	430	445	267
65°	195	228	281	320	334	193
75°	99	128	165	194	200	105
85°	23	28	29	25	23	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736	736	736	736	736
2.5°	732	733	736	738	738
5°	728	730	735	738	739
7.5°	722	725	732	736	737
10°	713	717	726	732	734
12.5°	702	708	719	727	729
15°	688	696	709	719	722
17.5°	672	682	698	710	714
20°	655	665	685	699	704
22.5°	635	648	671	687	691
25°	614	629	654	672	678
27.5°	591	609	636	658	663
30°	567	586	617	641	647
32.5°	542	564	597	624	632
35°	517	539	575	605	614
37.5°	488	514	554	585	596
40°	463	488	531	565	576
42.5°	435	462	507	544	557
45°	407	436	484	523	536
47.5°	381	410	460	501	514
50°	354	384	436	478	491
52.5°	325	358	412	454	469
55°	299	332	386	430	445
57.5°	272	306	362	404	418
60°	247	280	335	376	392
62.5°	220	254	308	348	363
65°	195	228	281	320	334
67.5°	170	203	253	290	306
70°	145	178	224	260	274
72.5°	123	152	196	229	242
75°	99	128	165	194	200
77.5°	77	103	134	147	149
80°	57	77	98	101	101
82.5°	38	53	61	62	61
85°	23	28	29	25	23
87.5°	8	8	5	3	1
90°	0	0	0	0	0

(END OF REPORT)