

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: P387417

Luminaire Tested: **14CZ2-25-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: P387417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-580-2)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-SQR-UNV-L950-CD1-SDWPD1-U
Description: 1x4 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: 2101.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

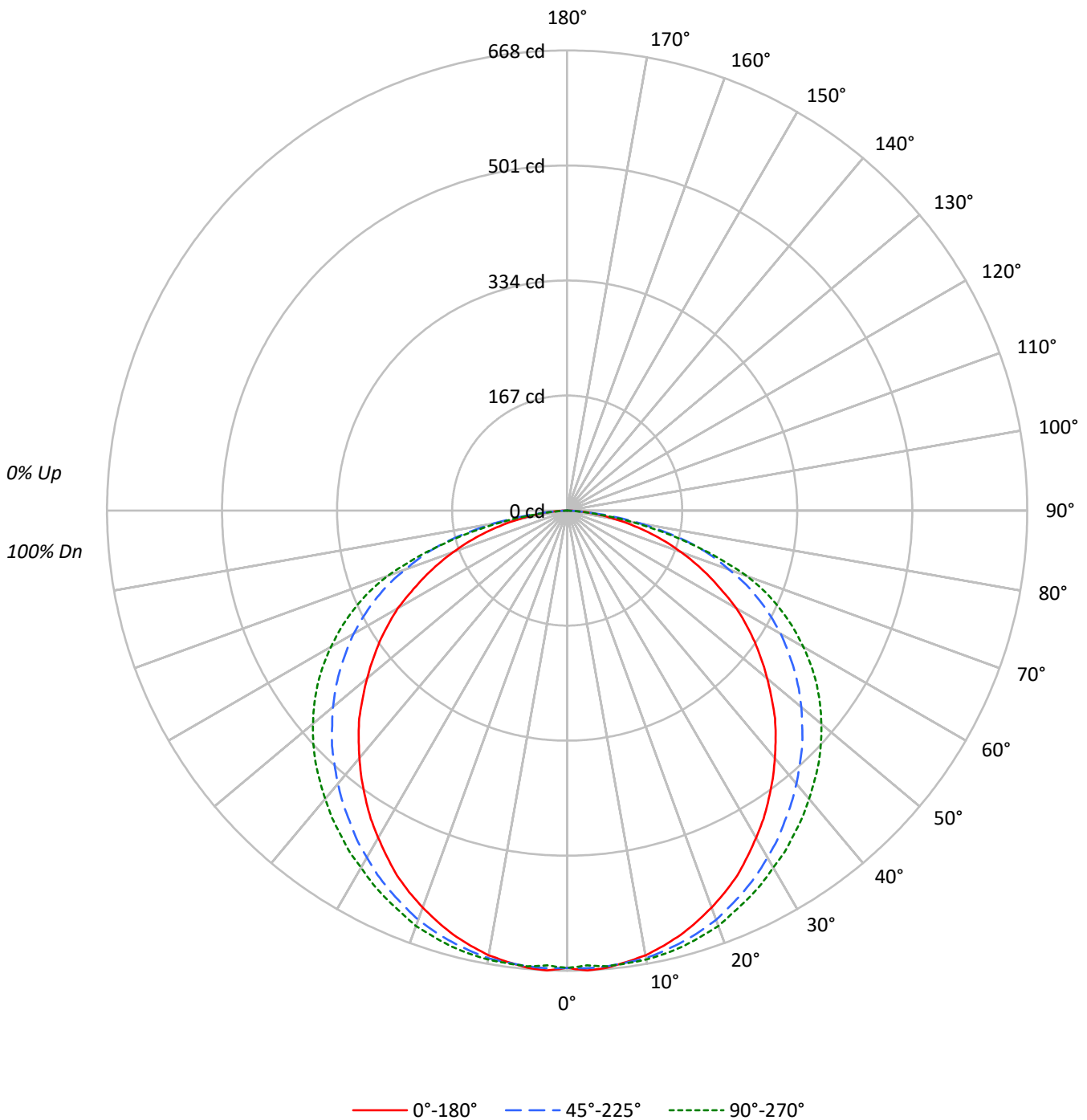
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1787	1787	1787
5°	1799	1794	1794
10°	1791	1803	1808
15°	1776	1806	1823
20°	1756	1810	1838
25°	1735	1808	1846
30°	1704	1807	1859
35°	1677	1809	1886
40°	1648	1819	1919
45°	1624	1838	1967
50°	1587	1858	2017
55°	1560	1888	2076
60°	1527	1926	2131
65°	1456	1962	2185
70°	1383	1966	2183
75°	1266	1960	1927
80°	1083	1674	1494
85°	849	948	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.0
10°-20°	182.3	8.7
20°-30°	278.7	13.3
30°-40°	341.7	16.3
40°-50°	367.5	17.5
50°-60°	353.1	16.8
60°-70°	294.0	14.0
70°-80°	180.4	8.6
80°-90°	40.2	1.9
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°	524.1	24.9
0°-40°	865.8	41.2
0°-60°	1586.4	75.5
0°-90°	2101.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	666	660	664	664	664	63
15°	638	635	648	652	654	180
25°	584	590	609	616	622	269
35°	510	523	551	566	574	319
45°	427	446	483	505	517	328
55°	332	361	402	430	443	297
65°	229	264	308	334	343	227
75°	122	159	188	187	185	129
85°	28	41	31	21	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.0	664.0	664.0	664.0	664.0
2.5°	668.2	661.8	665.0	664.0	660.8
5°	666.1	659.7	664.0	664.0	664.0
7.5°	660.8	655.5	661.8	662.9	662.9
10°	655.5	651.3	659.7	660.8	661.8
12.5°	647.0	643.8	654.4	656.6	658.7
15°	637.5	635.4	648.1	652.3	654.4
17.5°	625.8	626.9	640.7	646.0	648.1
20°	613.1	616.3	632.2	637.5	641.7
22.5°	599.4	603.6	620.5	626.9	631.1
25°	584.5	589.8	608.9	616.3	621.6
27.5°	566.5	575.0	596.2	605.7	611.0
30°	548.5	558.1	581.4	593.0	598.3
32.5°	530.5	541.1	567.6	579.2	587.7
35°	510.4	523.1	550.7	565.5	574.0
37.5°	490.3	505.1	534.8	551.7	561.2
40°	469.1	485.0	517.8	536.9	546.4
42.5°	447.9	465.9	499.8	521.0	531.6
45°	426.8	445.8	482.9	505.1	516.8
47.5°	402.4	425.7	462.8	488.2	499.8
50°	379.1	404.5	443.7	470.2	481.8
52.5°	355.8	382.3	423.6	451.1	462.8
55°	332.5	361.1	402.4	429.9	442.6
57.5°	308.2	337.8	380.2	408.8	420.4
60°	283.8	314.5	357.9	384.4	396.0
62.5°	255.2	291.2	333.6	360.0	370.6
65°	228.7	263.7	308.2	333.6	343.1
67.5°	202.3	238.3	281.7	305.0	313.5
70°	175.8	211.8	249.9	272.2	277.4
72.5°	149.3	185.3	221.3	234.0	231.9
75°	121.8	158.8	188.5	187.4	185.3
77.5°	95.3	131.3	149.3	141.9	138.7
80°	69.9	104.8	108.0	100.6	96.4
82.5°	47.7	75.2	67.8	59.3	55.1
85°	27.5	41.3	30.7	21.2	18.0
87.5°	11.6	10.6	3.2	3.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)