

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: P387419

Luminaire Tested: **14CZ2-25-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: P387419
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-U
Description: 1x4 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

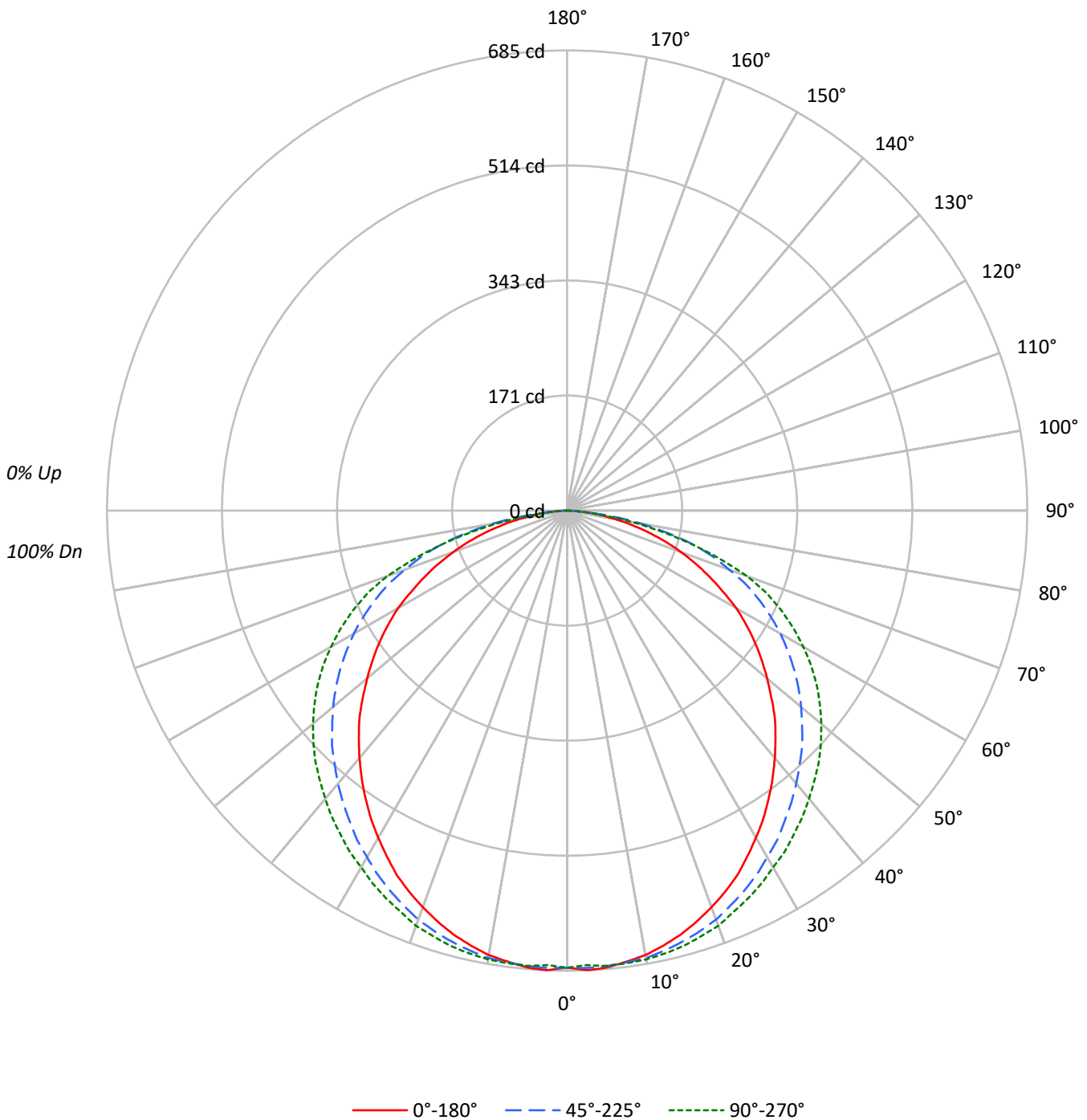
Lumens per Lamp: N/A
Luminaire Lumens: 2153.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1831	1831	1831
5°	1844	1838	1838
10°	1836	1848	1853
15°	1820	1850	1869
20°	1800	1855	1883
25°	1779	1853	1892
30°	1747	1851	1905
35°	1718	1854	1932
40°	1689	1864	1967
45°	1665	1883	2015
50°	1626	1904	2067
55°	1599	1935	2129
60°	1566	1974	2185
65°	1493	2011	2239
70°	1418	2015	2238
75°	1298	2009	1974
80°	1110	1715	1531
85°	871	973	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.0
10°-20°	186.8	8.7
20°-30°	285.7	13.3
30°-40°	350.2	16.3
40°-50°	376.6	17.5
50°-60°	361.9	16.8
60°-70°	301.4	14.0
70°-80°	184.9	8.6
80°-90°	41.2	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°	537.2	24.9
0°-40°	887.4	41.2
0°-60°	1625.9	75.5
0°-90°	2153.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	683	676	680	680	680	65
15°	653	651	664	669	671	184
25°	599	604	624	632	637	276
35°	523	536	564	580	588	327
45°	437	457	495	518	530	337
55°	341	370	412	441	454	304
65°	234	270	316	342	352	232
75°	125	163	193	192	190	132
85°	28	42	32	22	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.5	680.5	680.5	680.5	680.5
2.5°	684.8	678.3	681.6	680.5	677.2
5°	682.7	676.2	680.5	680.5	680.5
7.5°	677.2	671.8	678.3	679.4	679.4
10°	671.8	667.5	676.2	677.2	678.3
12.5°	663.1	659.9	670.7	672.9	675.1
15°	653.4	651.2	664.2	668.6	670.7
17.5°	641.4	642.5	656.6	662.0	664.2
20°	628.4	631.7	647.9	653.4	657.7
22.5°	614.3	618.6	636.0	642.5	646.8
25°	599.1	604.5	624.1	631.7	637.1
27.5°	580.6	589.3	611.0	620.8	626.2
30°	562.2	572.0	595.8	607.8	613.2
32.5°	543.7	554.6	581.7	593.7	602.4
35°	523.1	536.1	564.4	579.6	588.2
37.5°	502.5	517.7	548.1	565.4	575.2
40°	480.8	497.1	530.7	550.3	560.0
42.5°	459.1	477.5	512.3	534.0	544.8
45°	437.4	456.9	494.9	517.7	529.6
47.5°	412.4	436.3	474.3	500.3	512.3
50°	388.5	414.6	454.7	481.9	493.8
52.5°	364.7	391.8	434.1	462.3	474.3
55°	340.8	370.1	412.4	440.6	453.7
57.5°	315.8	346.2	389.6	418.9	430.9
60°	290.9	322.3	366.8	394.0	405.9
62.5°	261.6	298.5	341.9	369.0	379.9
65°	234.4	270.2	315.8	341.9	351.6
67.5°	207.3	244.2	288.7	312.6	321.3
70°	180.2	217.1	256.1	278.9	284.4
72.5°	153.0	189.9	226.8	239.9	237.7
75°	124.8	162.8	193.2	192.1	189.9
77.5°	97.7	134.6	153.0	145.4	142.2
80°	71.6	107.4	110.7	103.1	98.8
82.5°	48.8	77.1	69.5	60.8	56.4
85°	28.2	42.3	31.5	21.7	18.5
87.5°	11.9	10.9	3.3	3.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)