

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: P387463

Luminaire Tested: **14CZ2-35-SQR-UNV-L940-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: P387463
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: 14CZ2-35-SQR-UNV-L940-CD1-SWPD1-U
Description: 1x4 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2872.2 lumens
Efficiency: N/A
Efficacy: 92.1 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

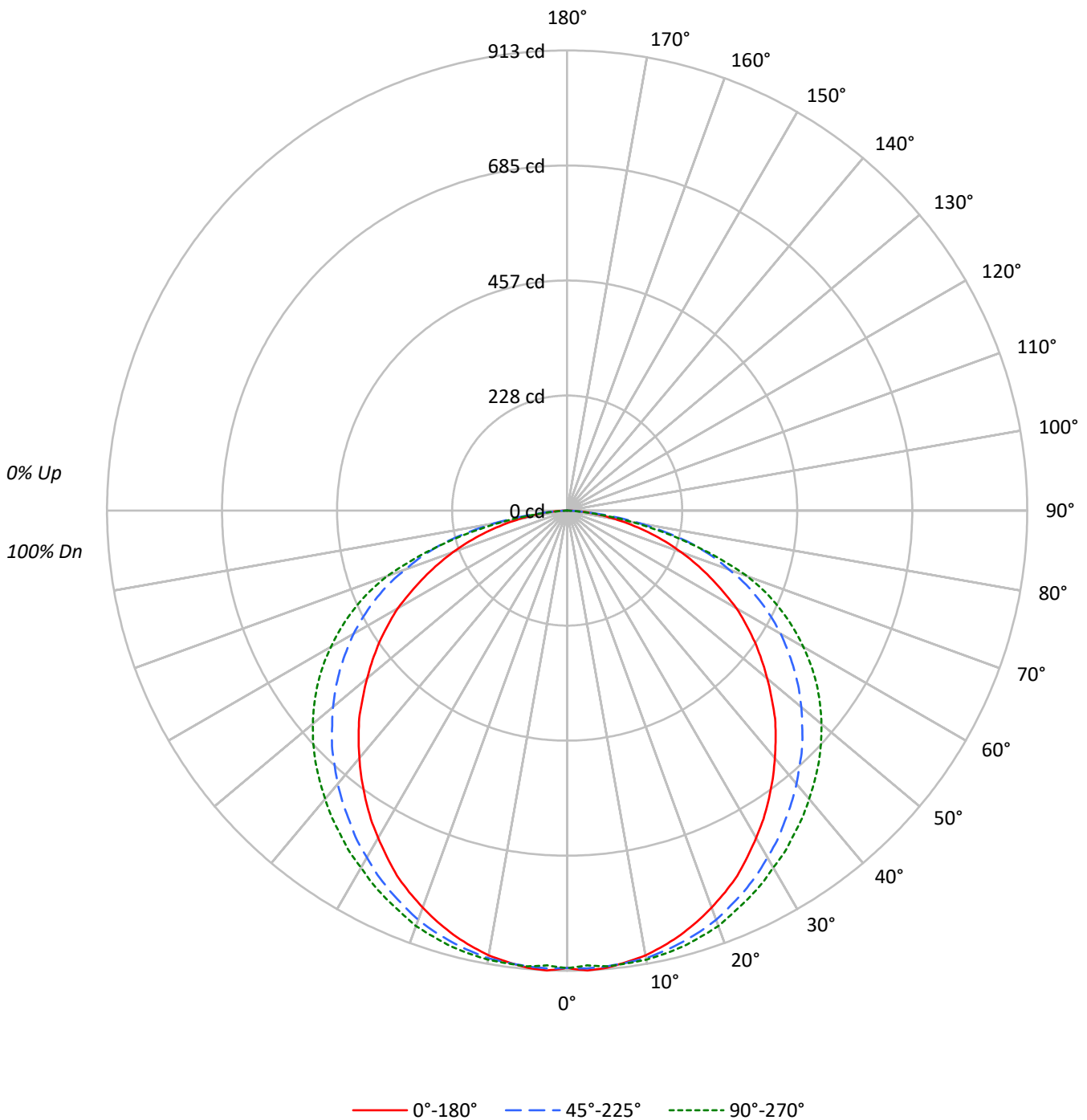
Input Watts (W): 31.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2442	2442	2442
5°	2459	2452	2452
10°	2449	2464	2472
15°	2428	2468	2492
20°	2400	2475	2512
25°	2373	2472	2523
30°	2330	2469	2541
35°	2292	2473	2577
40°	2253	2487	2624
45°	2220	2512	2688
50°	2169	2539	2758
55°	2132	2581	2839
60°	2088	2633	2914
65°	1991	2682	2986
70°	1891	2688	2984
75°	1731	2679	2634
80°	1480	2289	2041
85°	1161	1297	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.0
10°-20°	249.2	8.7
20°-30°	381.1	13.3
30°-40°	467.1	16.3
40°-50°	502.3	17.5
50°-60°	482.7	16.8
60°-70°	401.9	14.0
70°-80°	246.7	8.6
80°-90°	55.0	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°	716.5	24.9
0°-40°	1183.6	41.2
0°-60°	2168.6	75.5
0°-90°	2872.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	910	902	908	908	908	86
15°	872	869	886	892	895	246
25°	799	806	832	842	850	368
35°	698	715	753	773	785	437
45°	583	609	660	690	706	449
55°	454	494	550	588	605	406
65°	313	360	421	456	469	310
75°	166	217	258	256	253	176
85°	38	56	42	29	25	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.6	907.6	907.6	907.6	907.6
2.5°	913.4	904.7	909.1	907.6	903.3
5°	910.5	901.8	907.6	907.6	907.6
7.5°	903.3	896.1	904.7	906.2	906.2
10°	896.1	890.3	901.8	903.3	904.7
12.5°	884.5	880.1	894.6	897.5	900.4
15°	871.5	868.6	885.9	891.7	894.6
17.5°	855.5	857.0	875.8	883.0	885.9
20°	838.2	842.5	864.2	871.5	877.2
22.5°	819.3	825.1	848.3	857.0	862.8
25°	799.1	806.3	832.4	842.5	849.7
27.5°	774.5	786.0	815.0	828.0	835.3
30°	749.9	762.9	794.7	810.7	817.9
32.5°	725.2	739.7	775.9	791.8	803.4
35°	697.7	715.1	752.7	773.0	784.6
37.5°	670.2	690.5	731.0	754.2	767.2
40°	641.3	663.0	707.9	733.9	747.0
42.5°	612.3	636.9	683.3	712.2	726.7
45°	583.4	609.4	660.1	690.5	706.4
47.5°	550.1	581.9	632.6	667.3	683.3
50°	518.2	553.0	606.5	642.7	658.7
52.5°	486.4	522.6	579.0	616.7	632.6
55°	454.5	493.6	550.1	587.7	605.1
57.5°	421.2	461.8	519.7	558.8	574.7
60°	388.0	429.9	489.3	525.5	541.4
62.5°	348.9	398.1	456.0	492.2	506.7
65°	312.7	360.5	421.2	456.0	469.0
67.5°	276.5	325.7	385.1	416.9	428.5
70°	240.3	289.5	341.6	372.0	379.3
72.5°	204.1	253.3	302.5	319.9	317.0
75°	166.5	217.1	257.7	256.2	253.3
77.5°	130.3	179.5	204.1	194.0	189.6
80°	95.5	143.3	147.7	137.5	131.7
82.5°	65.1	102.8	92.6	81.1	75.3
85°	37.6	56.5	42.0	29.0	24.6
87.5°	15.9	14.5	4.3	4.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)