

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: P387537

Luminaire Tested: **14CZ2-44-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: P387537
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: 14CZ2-44-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: 3832.6 lumens
Efficiency: N/A
Efficacy: 100.1 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

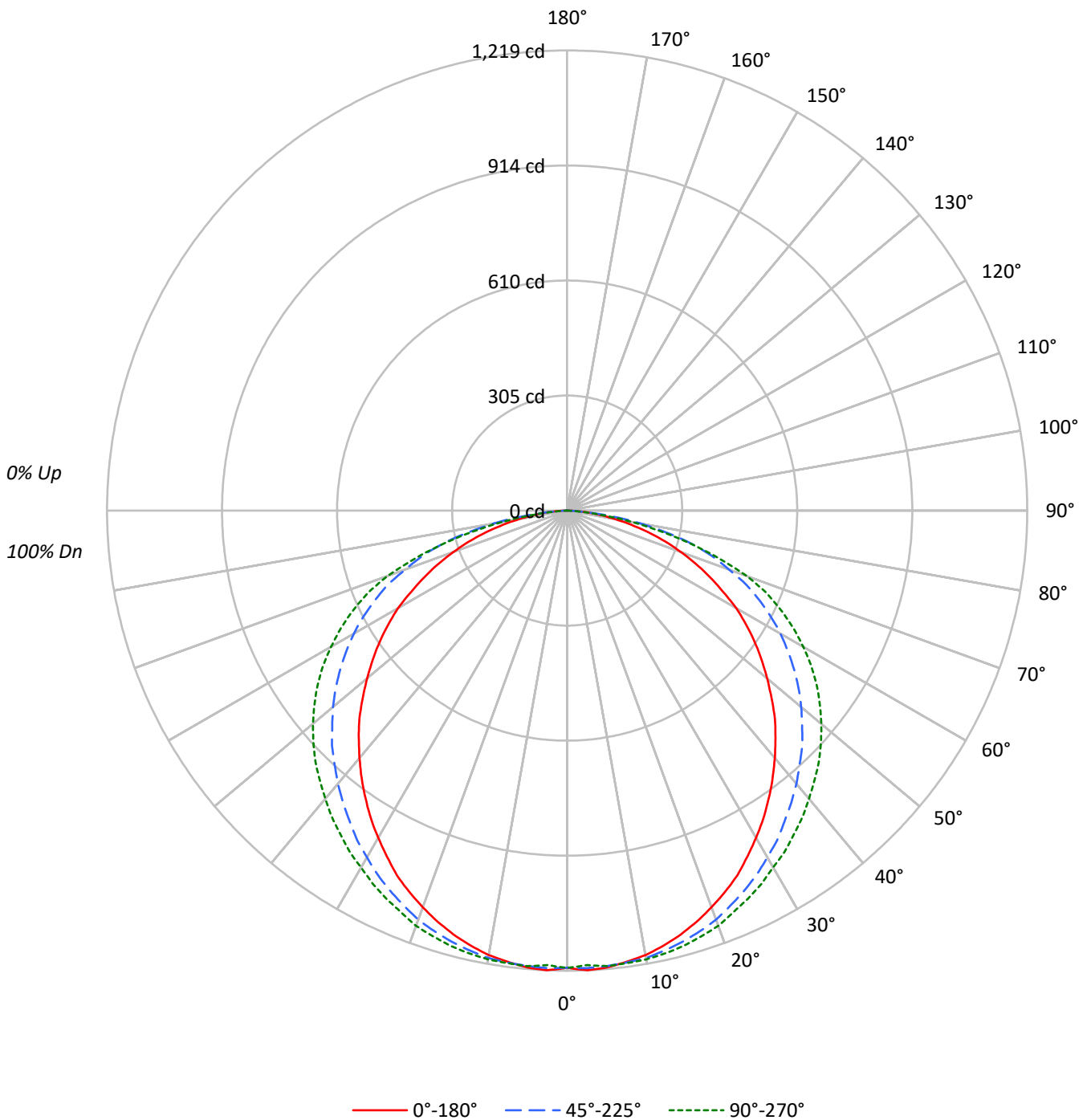
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3259	3259	3259
5°	3282	3271	3271
10°	3267	3288	3299
15°	3239	3293	3326
20°	3203	3302	3352
25°	3166	3298	3367
30°	3109	3295	3391
35°	3058	3300	3439
40°	3006	3318	3501
45°	2962	3352	3587
50°	2895	3388	3679
55°	2845	3444	3788
60°	2786	3514	3888
65°	2656	3579	3985
70°	2523	3587	3982
75°	2309	3575	3514
80°	1976	3053	2724
85°	1550	1729	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.0
10°-20°	332.5	8.7
20°-30°	508.5	13.3
30°-40°	623.3	16.3
40°-50°	670.3	17.5
50°-60°	644.1	16.8
60°-70°	536.3	14.0
70°-80°	329.2	8.6
80°-90°	73.3	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°	956.1	24.9
0°-40°	1579.3	41.2
0°-60°	2893.7	75.5
0°-90°	3832.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3832.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1215	1203	1211	1211	1211	115
15°	1163	1159	1182	1190	1194	328
25°	1066	1076	1111	1124	1134	490
35°	931	954	1004	1032	1047	583
45°	778	813	881	921	943	599
55°	606	659	734	784	807	542
65°	417	481	562	608	626	413
75°	222	290	344	342	338	235
85°	50	75	56	39	33	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.1	1211.1	1211.1	1211.1	1211.1
2.5°	1218.9	1207.3	1213.1	1211.1	1205.3
5°	1215.0	1203.4	1211.1	1211.1	1211.1
7.5°	1205.3	1195.7	1207.3	1209.2	1209.2
10°	1195.7	1188.0	1203.4	1205.3	1207.3
12.5°	1180.2	1174.4	1193.8	1197.6	1201.5
15°	1162.8	1159.0	1182.2	1189.9	1193.8
17.5°	1141.6	1143.5	1168.6	1178.3	1182.2
20°	1118.4	1124.2	1153.2	1162.8	1170.6
22.5°	1093.3	1101.0	1131.9	1143.5	1151.3
25°	1066.3	1075.9	1110.7	1124.2	1133.9
27.5°	1033.4	1048.9	1087.5	1104.9	1114.6
30°	1000.6	1018.0	1060.5	1081.7	1091.4
32.5°	967.7	987.1	1035.4	1056.6	1072.1
35°	931.0	954.2	1004.4	1031.5	1046.9
37.5°	894.3	921.4	975.5	1006.4	1023.8
40°	855.7	884.7	944.6	979.3	996.7
42.5°	817.1	849.9	911.7	950.4	969.7
45°	778.4	813.2	880.8	921.4	942.6
47.5°	734.0	776.5	844.1	890.5	911.7
50°	691.5	737.9	809.4	857.6	878.9
52.5°	649.0	697.3	772.7	822.9	844.1
55°	606.5	658.7	734.0	784.2	807.4
57.5°	562.1	616.2	693.5	745.6	766.9
60°	517.7	573.7	652.9	701.2	722.4
62.5°	465.5	531.2	608.5	656.8	676.1
65°	417.2	481.0	562.1	608.5	625.8
67.5°	368.9	434.6	513.8	556.3	571.8
70°	320.7	386.3	455.9	496.4	506.1
72.5°	272.4	338.0	403.7	426.9	423.0
75°	222.1	289.7	343.8	341.9	338.0
77.5°	173.8	239.5	272.4	258.8	253.0
80°	127.5	191.2	197.0	183.5	175.8
82.5°	86.9	137.1	123.6	108.2	100.4
85°	50.2	75.3	56.0	38.6	32.8
87.5°	21.2	19.3	5.8	5.8	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)