

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: P387987

Luminaire Tested: **22CZ2-44-SQR-UNV-L935-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: P387987
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: 22CZ2-44-SQR-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3504.9 lumens
Efficiency: N/A
Efficacy: 82.1 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

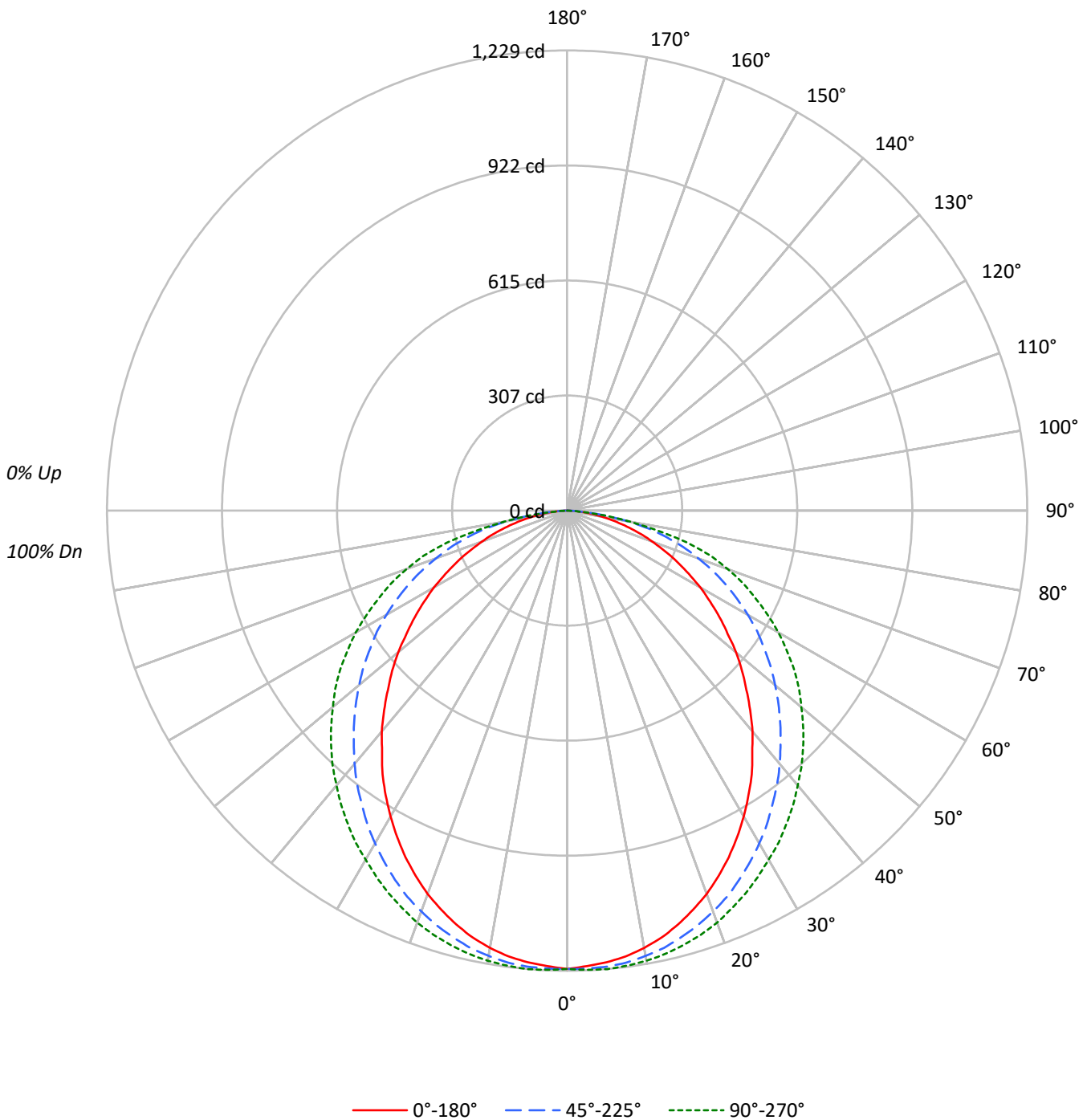
Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3295	3295	3295
5°	3271	3303	3321
10°	3241	3300	3336
15°	3188	3286	3346
20°	3120	3263	3354
25°	3033	3230	3349
30°	2931	3189	3344
35°	2825	3142	3355
40°	2706	3103	3366
45°	2577	3064	3393
50°	2465	3036	3419
55°	2334	3012	3473
60°	2211	2999	3510
65°	2066	2976	3538
70°	1898	2932	3586
75°	1712	2854	3459
80°	1469	2526	2603
85°	1183	1488	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.3
10°-20°	331.9	9.5
20°-30°	498.4	14.2
30°-40°	594.4	17.0
40°-50°	614.6	17.5
50°-60°	565.1	16.1
60°-70°	449.8	12.8
70°-80°	274.8	7.8
80°-90°	59.7	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°	946.4	27.0
0°-40°	1540.8	44.0
0°-60°	2720.5	77.6
0°-90°	3504.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1211	1214	1223	1228	1229	115
15°	1144	1158	1179	1196	1201	322
25°	1021	1046	1088	1118	1128	470
35°	860	897	956	1006	1021	537
45°	677	725	805	870	892	524
55°	497	552	642	715	740	445
65°	324	379	467	532	556	321
75°	165	213	274	323	333	175
85°	38	47	48	42	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.3	1224.3	1224.3	1224.3	1224.3
2.5°	1217.7	1219.4	1224.3	1227.7	1227.7
5°	1211.0	1214.4	1222.7	1227.7	1229.3
7.5°	1201.1	1206.0	1217.7	1224.3	1226.0
10°	1186.1	1192.7	1207.7	1217.7	1221.0
12.5°	1167.8	1177.8	1196.1	1209.4	1212.7
15°	1144.5	1157.8	1179.4	1196.1	1201.1
17.5°	1117.9	1134.5	1161.1	1181.1	1187.7
20°	1089.6	1106.2	1139.5	1162.8	1171.1
22.5°	1056.3	1078.0	1116.2	1142.8	1149.5
25°	1021.4	1046.4	1087.9	1117.9	1127.9
27.5°	983.1	1013.1	1058.0	1094.6	1102.9
30°	943.2	974.8	1026.4	1066.3	1076.3
32.5°	901.6	938.2	993.1	1038.0	1051.3
35°	860.0	896.6	956.5	1006.4	1021.4
37.5°	811.8	855.0	921.6	973.2	991.5
40°	770.2	811.8	883.3	939.9	958.2
42.5°	723.6	768.5	843.4	905.0	926.6
45°	677.1	725.3	805.1	870.0	891.6
47.5°	633.8	682.0	765.2	833.4	855.0
50°	588.9	638.8	725.3	795.2	816.8
52.5°	540.6	595.5	685.4	755.2	780.2
55°	497.4	552.3	642.1	715.3	740.3
57.5°	452.5	509.0	602.2	672.1	695.3
60°	410.9	465.8	557.3	625.5	652.1
62.5°	366.0	422.5	512.4	578.9	603.9
65°	324.4	379.3	467.4	532.3	555.6
67.5°	282.8	337.7	420.9	482.4	509.0
70°	241.2	296.1	372.6	432.5	455.8
72.5°	204.6	252.9	326.0	380.9	402.6
75°	164.7	212.9	274.5	322.7	332.7
77.5°	128.1	171.3	222.9	244.5	247.9
80°	94.8	128.1	163.0	168.0	168.0
82.5°	63.2	88.2	101.5	103.1	101.5
85°	38.3	46.6	48.2	41.6	38.3
87.5°	13.3	13.3	8.3	5.0	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)