

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: P390624

Luminaire Tested: **22CZ2-70VHE-RDP-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: P390624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-70VHE-RDP-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893.1 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

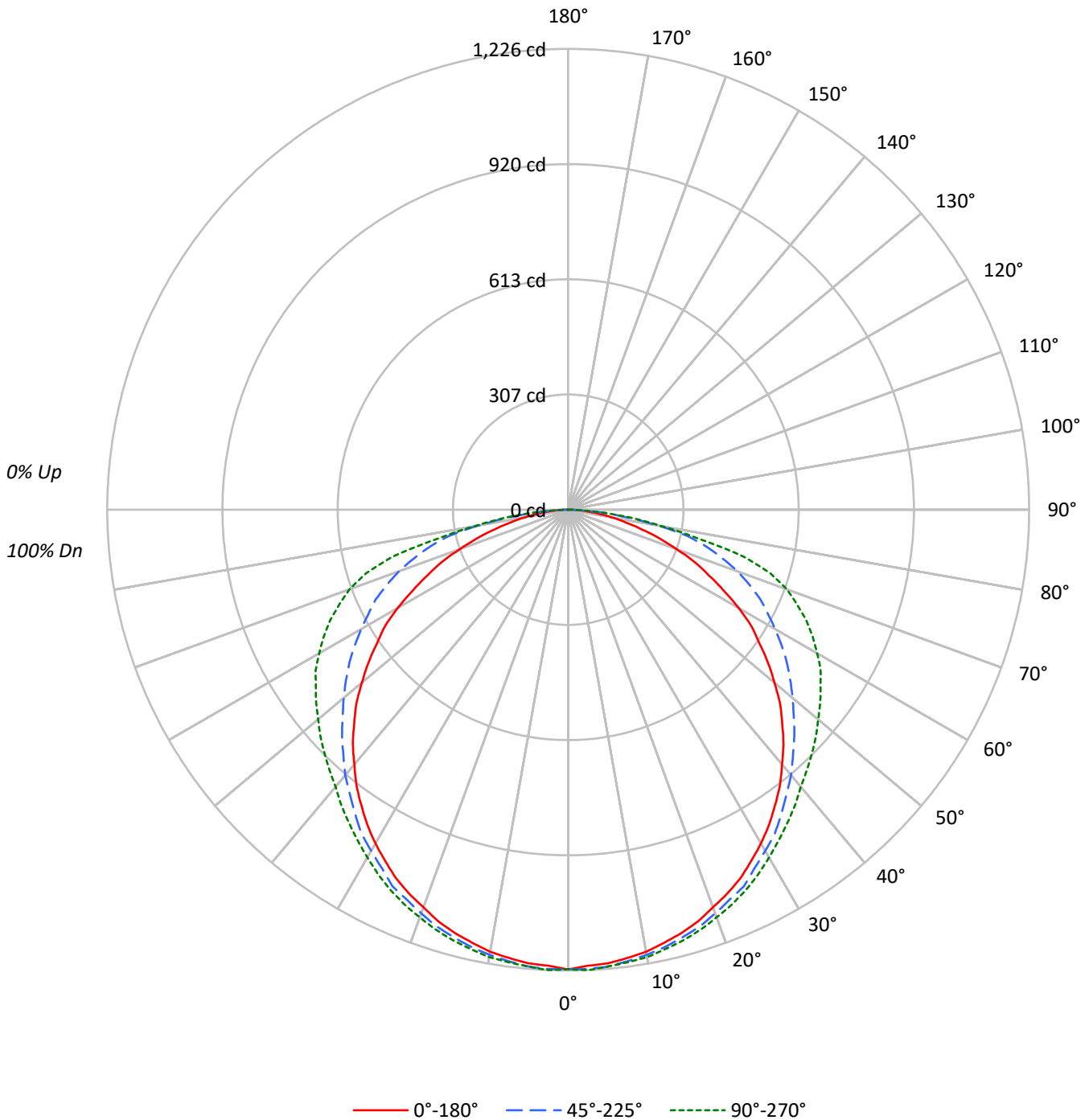
Input Watts (W): 50.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3291	3291	3291
5°	3272	3296	3296
10°	3263	3287	3302
15°	3247	3279	3303
20°	3223	3272	3305
25°	3214	3282	3316
30°	3186	3257	3319
35°	3152	3246	3340
40°	3108	3240	3380
45°	3063	3237	3488
50°	2997	3261	3633
55°	2916	3332	3843
60°	2821	3422	4116
65°	2626	3592	4450
70°	2411	3763	4867
75°	2114	3960	5032
80°	1819	3772	3950
85°	1593	2742	3007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.0
10°-20°	332.1	8.5
20°-30°	506.7	13.0
30°-40°	618.7	15.9
40°-50°	661.6	17.0
50°-60°	638.6	16.4
60°-70°	549.7	14.1
70°-80°	371.9	9.6
80°-90°	98.1	2.5
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°	954.5	24.5
0°-40°	1573.3	40.4
0°-60°	2873.4	73.8
0°-90°	3893.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3893.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1211	1214	1220	1220	1220	115
15°	1166	1168	1177	1183	1186	329
25°	1083	1088	1106	1111	1117	498
35°	959	968	988	1008	1017	600
45°	805	819	851	894	916	621
55°	622	642	710	782	819	557
65°	412	452	564	653	699	410
75°	203	269	381	458	484	218
85°	52	72	89	92	97	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.9	1222.9	1222.9	1222.9	1222.9
2.5°	1214.3	1217.2	1222.9	1222.9	1225.8
5°	1211.4	1214.3	1220.0	1220.0	1220.0
7.5°	1202.8	1205.7	1211.4	1214.3	1214.3
10°	1194.3	1197.1	1202.8	1205.7	1208.6
12.5°	1179.9	1182.8	1191.4	1197.1	1197.1
15°	1165.6	1168.5	1177.1	1182.8	1185.7
17.5°	1148.4	1154.2	1162.7	1168.5	1171.3
20°	1125.5	1131.2	1142.7	1151.3	1154.2
22.5°	1105.5	1111.2	1122.7	1131.2	1137.0
25°	1082.6	1088.3	1105.5	1111.2	1116.9
27.5°	1053.9	1059.6	1074.0	1085.4	1094.0
30°	1025.3	1031.0	1048.2	1062.5	1068.2
32.5°	993.8	1002.4	1022.4	1033.9	1042.5
35°	959.4	968.0	988.0	1008.1	1016.7
37.5°	925.0	933.6	953.7	979.5	990.9
40°	884.9	896.4	922.2	956.5	962.3
42.5°	847.7	862.0	884.9	925.0	939.4
45°	804.8	819.1	850.6	893.5	916.5
47.5°	764.7	779.0	813.4	864.9	893.5
50°	716.0	736.0	779.0	839.1	867.8
52.5°	670.2	687.3	744.6	810.5	844.9
55°	621.5	641.5	710.3	781.8	819.1
57.5°	578.5	595.7	673.0	753.2	796.2
60°	524.1	547.0	635.8	721.7	764.7
62.5°	466.8	501.2	598.6	687.3	733.2
65°	412.4	452.5	564.2	653.0	698.8
67.5°	363.7	406.7	521.2	615.7	658.7
70°	306.4	360.9	478.3	569.9	618.6
72.5°	254.9	315.0	429.6	521.2	564.2
75°	203.3	269.2	380.9	458.2	484.0
77.5°	157.5	220.5	326.5	349.4	352.3
80°	117.4	174.7	243.4	246.3	254.9
82.5°	80.2	123.1	157.5	171.8	174.7
85°	51.6	71.6	88.8	91.6	97.4
87.5°	22.9	25.8	31.5	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)