

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: P390526

Luminaire Tested: **22CZ2-60VHE-RDP-UNV-L930-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: P390526
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: 22CZ2-60VHE-RDP-UNV-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3348.5 lumens
Efficiency: N/A
Efficacy: 75.9 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

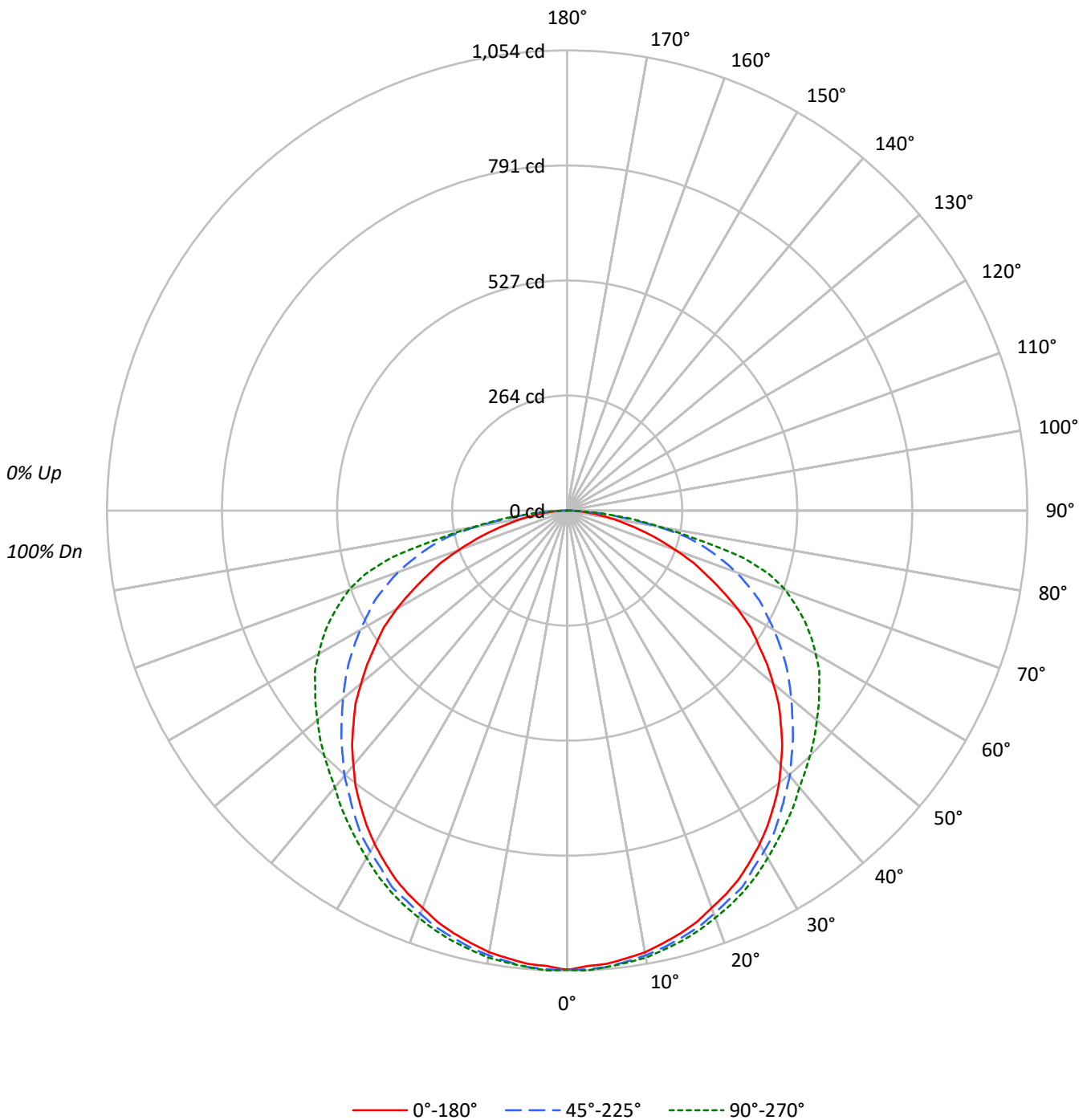
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2830	2830	2830
5°	2815	2835	2835
10°	2807	2827	2840
15°	2793	2820	2841
20°	2772	2815	2843
25°	2765	2823	2852
30°	2740	2802	2855
35°	2711	2792	2873
40°	2674	2786	2908
45°	2634	2784	3000
50°	2578	2805	3125
55°	2508	2866	3305
60°	2426	2943	3540
65°	2259	3090	3827
70°	2074	3237	4187
75°	1818	3406	4328
80°	1565	3245	3397
85°	1368	2359	2587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.0
10°-20°	285.7	8.5
20°-30°	435.8	13.0
30°-40°	532.2	15.9
40°-50°	569.0	17.0
50°-60°	549.2	16.4
60°-70°	472.8	14.1
70°-80°	319.9	9.6
80°-90°	84.4	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°	821.0	24.5
0°-40°	1353.2	40.4
0°-60°	2471.4	73.8
0°-90°	3348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1042	1044	1049	1049	1049	99
15°	1003	1005	1012	1017	1020	283
25°	931	936	951	956	961	429
35°	825	833	850	867	874	516
45°	692	704	732	768	788	534
55°	534	552	611	672	704	479
65°	355	389	485	562	601	353
75°	175	232	328	394	416	188
85°	44	62	76	79	84	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	1044.4	1046.9	1051.8	1051.8	1054.3
5°	1042.0	1044.4	1049.4	1049.4	1049.4
7.5°	1034.6	1037.0	1042.0	1044.4	1044.4
10°	1027.2	1029.7	1034.6	1037.0	1039.5
12.5°	1014.9	1017.3	1024.7	1029.7	1029.7
15°	1002.6	1005.0	1012.4	1017.3	1019.8
17.5°	987.8	992.7	1000.1	1005.0	1007.5
20°	968.1	973.0	982.9	990.2	992.7
22.5°	950.8	955.8	965.6	973.0	977.9
25°	931.1	936.0	950.8	955.8	960.7
27.5°	906.5	911.4	923.7	933.6	941.0
30°	881.9	886.8	901.6	913.9	918.8
32.5°	854.8	862.1	879.4	889.2	896.6
35°	825.2	832.6	849.8	867.1	874.5
37.5°	795.6	803.0	820.3	842.4	852.3
40°	761.2	771.0	793.2	822.7	827.7
42.5°	729.1	741.4	761.2	795.6	808.0
45°	692.2	704.5	731.6	768.5	788.3
47.5°	657.7	670.0	699.6	743.9	768.5
50°	615.8	633.1	670.0	721.7	746.4
52.5°	576.4	591.2	640.5	697.1	726.7
55°	534.5	551.8	610.9	672.5	704.5
57.5°	497.6	512.4	578.9	647.8	684.8
60°	450.8	470.5	546.8	620.7	657.7
62.5°	401.5	431.1	514.8	591.2	630.6
65°	354.7	389.2	485.3	561.6	601.0
67.5°	312.8	349.8	448.3	529.6	566.6
70°	263.6	310.4	411.4	490.2	532.1
72.5°	219.2	271.0	369.5	448.3	485.3
75°	174.9	231.5	327.6	394.1	416.3
77.5°	135.5	189.7	280.8	300.5	303.0
80°	101.0	150.3	209.4	211.8	219.2
82.5°	69.0	105.9	135.5	147.8	150.3
85°	44.3	61.6	76.4	78.8	83.8
87.5°	19.7	22.2	27.1	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)