

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: P390578

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L935-CD1-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: P390578
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: 22CZ2-65VHE-RDP-UNV-L935-CD1-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: 3729.7 lumens
Efficiency: N/A
Efficacy: 77.9 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

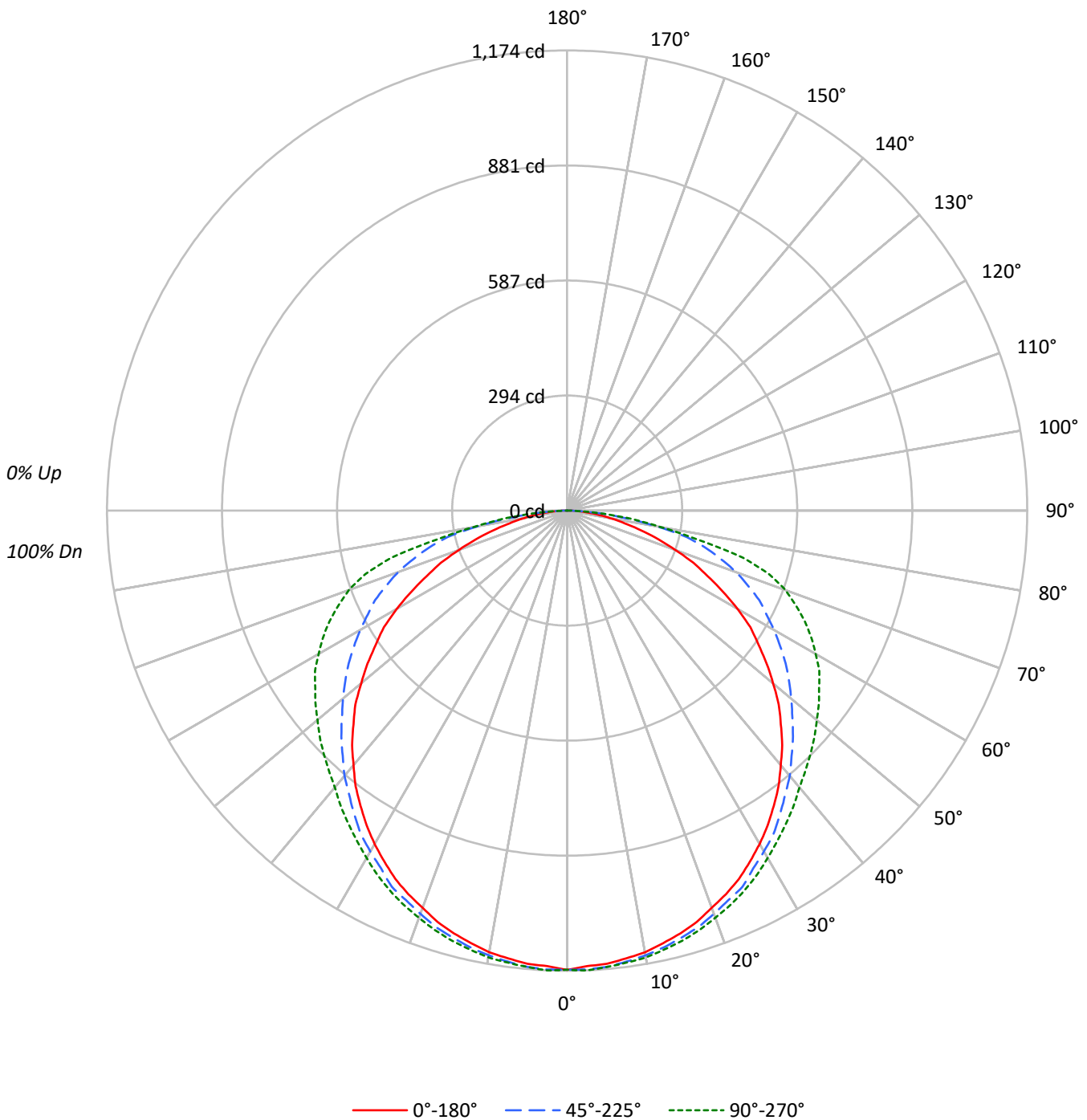
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3153	3153	3153
5°	3135	3157	3157
10°	3126	3149	3164
15°	3111	3142	3165
20°	3088	3135	3166
25°	3079	3145	3177
30°	3052	3120	3180
35°	3019	3110	3200
40°	2978	3104	3238
45°	2934	3101	3341
50°	2871	3124	3480
55°	2793	3192	3681
60°	2702	3278	3943
65°	2516	3442	4263
70°	2310	3605	4663
75°	2025	3794	4821
80°	1743	3614	3784
85°	1525	2628	2881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.0
10°-20°	318.2	8.5
20°-30°	485.5	13.0
30°-40°	592.8	15.9
40°-50°	633.8	17.0
50°-60°	611.8	16.4
60°-70°	526.6	14.1
70°-80°	356.3	9.6
80°-90°	94.0	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°	914.5	24.5
0°-40°	1507.2	40.4
0°-60°	2752.8	73.8
0°-90°	3729.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1161	1163	1169	1169	1169	110
15°	1117	1119	1128	1133	1136	315
25°	1037	1043	1059	1065	1070	477
35°	919	927	947	966	974	575
45°	771	785	815	856	878	595
55°	595	615	680	749	785	534
65°	395	434	540	626	670	393
75°	195	258	365	439	464	209
85°	49	69	85	88	93	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1163.3	1166.1	1171.6	1171.6	1174.3
5°	1160.6	1163.3	1168.8	1168.8	1168.8
7.5°	1152.4	1155.1	1160.6	1163.3	1163.3
10°	1144.1	1146.9	1152.4	1155.1	1157.8
12.5°	1130.4	1133.2	1141.4	1146.9	1146.9
15°	1116.7	1119.4	1127.7	1133.2	1135.9
17.5°	1100.2	1105.7	1113.9	1119.4	1122.2
20°	1078.3	1083.8	1094.7	1103.0	1105.7
22.5°	1059.1	1064.6	1075.5	1083.8	1089.3
25°	1037.1	1042.6	1059.1	1064.6	1070.0
27.5°	1009.7	1015.2	1028.9	1039.9	1048.1
30°	982.2	987.7	1004.2	1017.9	1023.4
32.5°	952.1	960.3	979.5	990.5	998.7
35°	919.1	927.4	946.6	965.8	974.0
37.5°	886.2	894.4	913.7	938.3	949.3
40°	847.8	858.8	883.5	916.4	921.9
42.5°	812.1	825.9	847.8	886.2	899.9
45°	771.0	784.7	814.9	856.0	878.0
47.5°	732.6	746.3	779.2	828.6	856.0
50°	685.9	705.1	746.3	803.9	831.3
52.5°	642.0	658.5	713.4	776.5	809.4
55°	595.4	614.6	680.4	749.0	784.7
57.5°	554.2	570.7	644.8	721.6	762.8
60°	502.1	524.0	609.1	691.4	732.6
62.5°	447.2	480.1	573.4	658.5	702.4
65°	395.1	433.5	540.5	625.6	669.5
67.5°	348.5	389.6	499.4	589.9	631.1
70°	293.6	345.7	458.2	546.0	592.6
72.5°	244.2	301.8	411.6	499.4	540.5
75°	194.8	257.9	364.9	439.0	463.7
77.5°	150.9	211.3	312.8	334.7	337.5
80°	112.5	167.4	233.2	236.0	244.2
82.5°	76.8	118.0	150.9	164.6	167.4
85°	49.4	68.6	85.1	87.8	93.3
87.5°	21.9	24.7	30.2	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)