

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: P275475

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3199.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

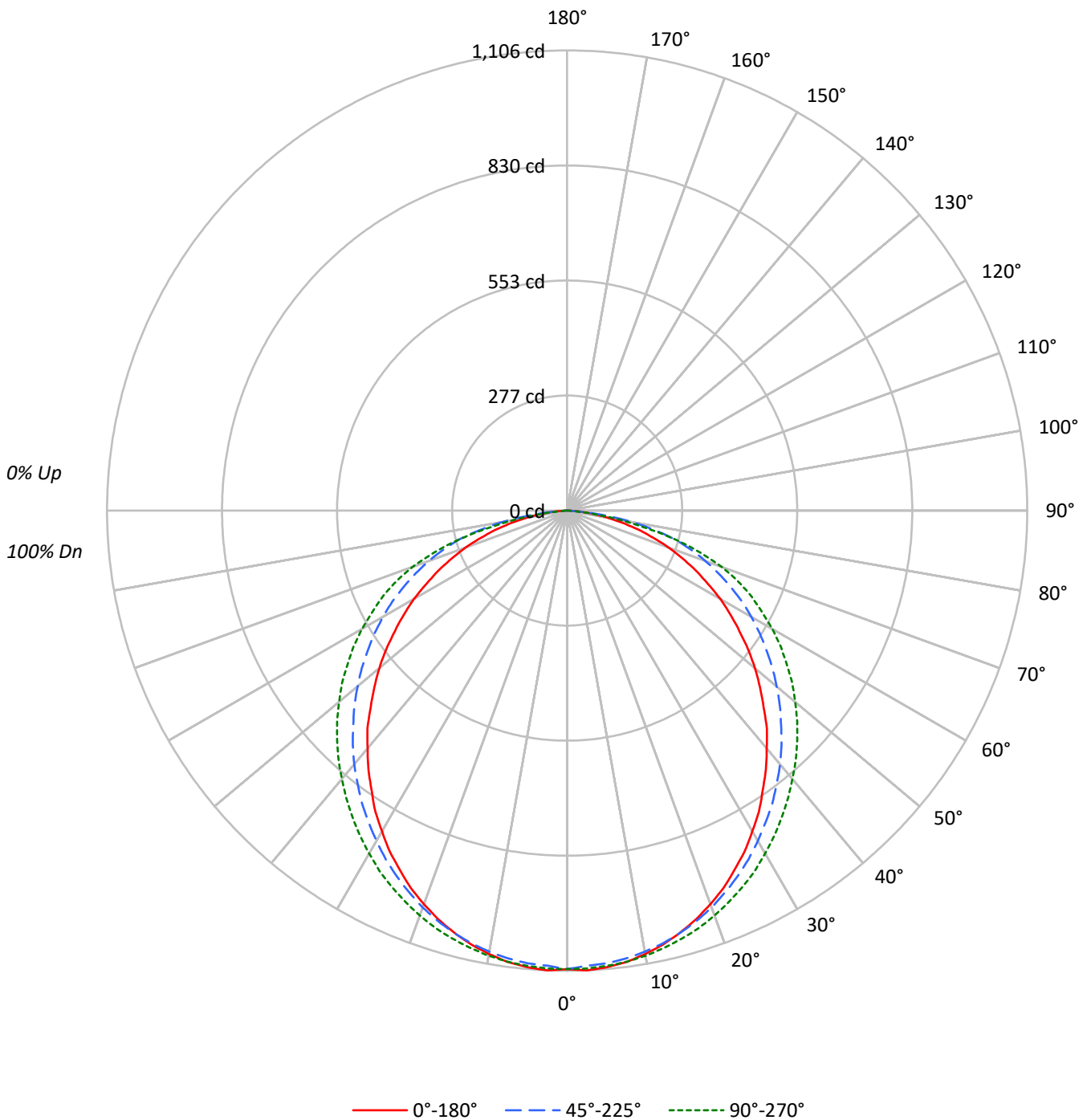
Input Watts (W): 27.435
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2966	2966	2966
5°	2975	2950	2967
10°	2957	2941	2969
15°	2925	2927	2967
20°	2882	2907	2966
25°	2828	2878	2963
30°	2766	2848	2957
35°	2692	2824	2955
40°	2621	2797	2959
45°	2541	2766	2975
50°	2467	2753	2995
55°	2373	2744	3022
60°	2288	2749	3063
65°	2171	2757	3111
70°	2037	2778	3109
75°	1847	2803	2810
80°	1514	2421	2001
85°	1124	1145	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.3
10°-20°	297.9	9.3
20°-30°	448.8	14.0
30°-40°	538.5	16.8
40°-50°	561.3	17.5
50°-60°	519.6	16.2
60°-70°	419.8	13.1
70°-80°	256.0	8.0
80°-90°	52.9	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°	850.9	26.6
0°-40°	1389.4	43.4
0°-60°	2470.3	77.2
0°-90°	3199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1101	1098	1092	1100	1098	105
15°	1050	1051	1051	1065	1065	296
25°	952	958	969	994	998	439
35°	820	832	860	891	900	513
45°	668	688	727	768	782	516
55°	506	532	585	631	644	453
65°	341	374	433	476	489	337
75°	178	217	270	274	270	186
85°	36	54	37	21	15	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1106.3	1102.8	1094.9	1102.8	1101.4
5°	1101.4	1098.5	1092.1	1099.9	1098.5
7.5°	1094.2	1091.4	1085.7	1094.9	1093.5
10°	1082.1	1080.7	1076.4	1087.1	1086.4
12.5°	1067.8	1067.1	1065.0	1077.1	1076.4
15°	1050.0	1050.7	1050.7	1065.0	1065.0
17.5°	1030.0	1031.4	1034.3	1050.0	1052.1
20°	1006.5	1009.3	1015.0	1032.9	1035.7
22.5°	982.2	984.4	992.9	1014.3	1017.2
25°	952.3	958.0	969.4	993.6	997.9
27.5°	923.7	928.7	944.4	969.4	976.5
30°	890.2	898.1	916.6	943.7	951.6
32.5°	858.1	866.7	888.1	919.5	926.6
35°	819.6	832.4	859.5	890.9	899.5
37.5°	784.6	796.8	827.4	861.7	871.7
40°	746.1	761.1	796.1	832.4	842.4
42.5°	710.5	724.7	762.5	799.6	813.2
45°	667.7	687.6	726.9	767.5	781.8
47.5°	628.4	648.4	693.3	736.9	749.7
50°	589.2	610.6	657.7	702.6	715.5
52.5°	548.5	571.4	622.0	666.9	681.9
55°	505.7	532.1	584.9	630.6	644.1
57.5°	465.1	492.2	548.5	594.9	608.5
60°	425.1	453.0	510.7	555.0	569.2
62.5°	380.9	413.7	473.6	517.2	527.9
65°	341.0	374.5	433.0	476.5	488.6
67.5°	298.9	335.3	393.7	433.7	445.1
70°	258.9	296.7	353.1	390.2	395.2
72.5°	216.1	254.7	311.7	335.3	335.3
75°	177.6	216.8	269.6	273.9	270.3
77.5°	135.5	179.0	213.3	204.7	196.2
80°	97.7	140.5	156.2	140.5	129.1
82.5°	65.6	102.0	94.2	74.9	66.3
85°	36.4	54.2	37.1	20.7	15.0
87.5°	13.6	12.1	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)