

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: P275568

Luminaire Tested: **14CZ2-29-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

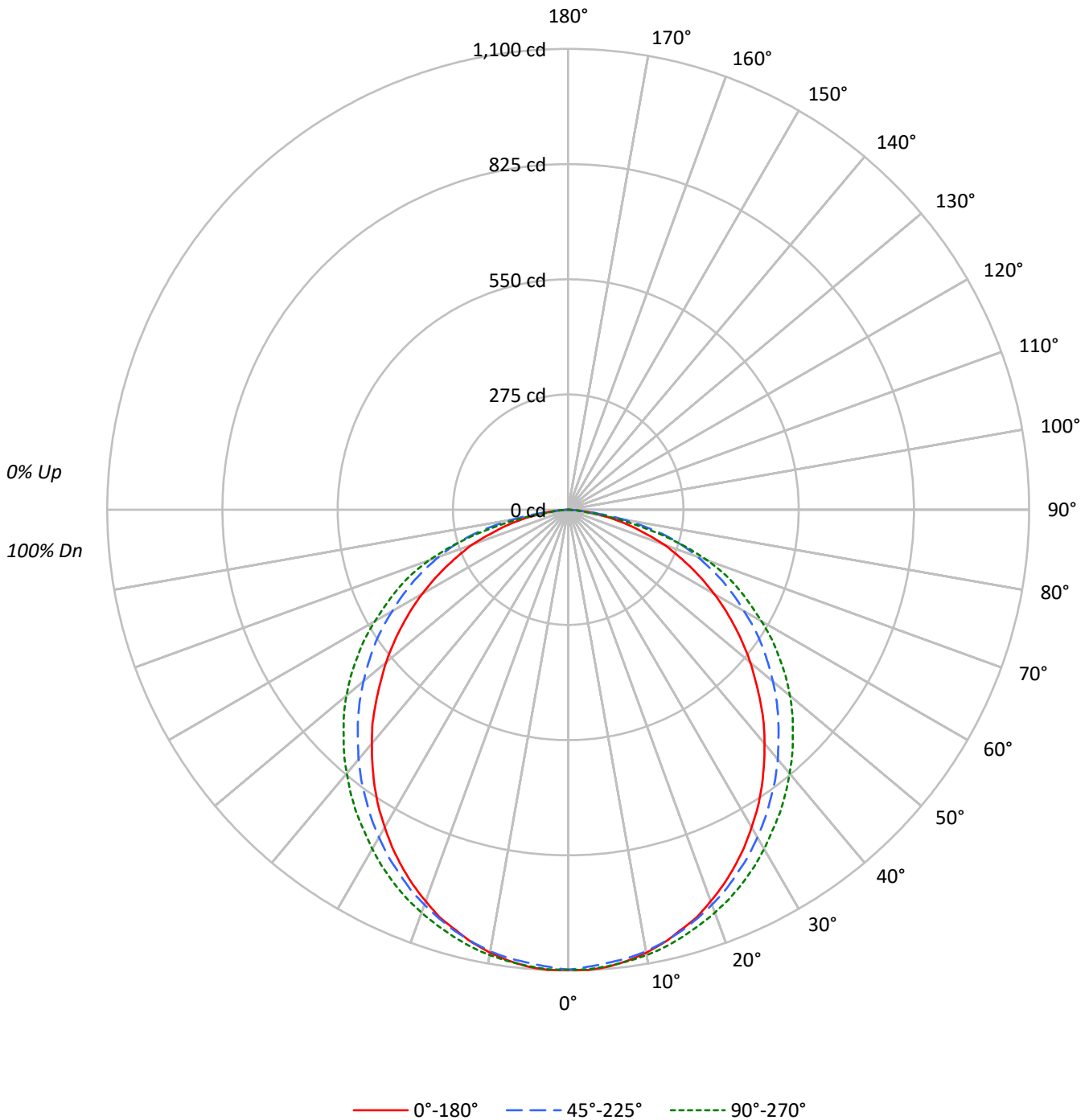
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84	84	
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70	70	
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50	50	
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43	43	
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38	38	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33	33	
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30	30	
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27	27	
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2955	2955	2955
5°	2958	2933	2954
10°	2934	2925	2951
15°	2893	2902	2940
20°	2848	2874	2931
25°	2790	2839	2921
30°	2720	2806	2905
35°	2645	2766	2896
40°	2561	2732	2888
45°	2467	2699	2885
50°	2375	2669	2892
55°	2275	2647	2883
60°	2167	2610	2865
65°	2039	2602	2865
70°	1920	2580	2784
75°	1665	2521	2379
80°	1347	2033	1584
85°	895	707	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.4
10°-20°	295.1	9.6
20°-30°	442.6	14.4
30°-40°	528.0	17.2
40°-50°	545.8	17.7
50°-60°	498.3	16.2
60°-70°	392.2	12.7
70°-80°	228.3	7.4
80°-90°	42.1	1.4
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°	841.3	27.4
0°-40°	1369.3	44.5
0°-60°	2413.5	78.5
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1095	1092	1086	1095	1094	104
15°	1039	1040	1042	1055	1055	293
25°	940	944	956	979	984	433
35°	805	816	842	874	882	503
45°	648	670	709	749	758	501
55°	485	511	564	606	615	434
65°	320	354	409	441	450	318
75°	160	198	242	238	229	170
85°	29	41	23	18	15	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.1	1098.1	1098.1	1098.1	1098.1
2.5°	1099.6	1096.6	1092.0	1099.6	1098.1
5°	1095.0	1092.0	1085.9	1095.0	1093.5
7.5°	1085.9	1082.8	1079.8	1088.9	1087.4
10°	1073.7	1072.2	1070.6	1081.3	1079.8
12.5°	1058.4	1058.4	1056.9	1069.1	1069.1
15°	1038.6	1040.1	1041.7	1055.4	1055.4
17.5°	1020.3	1018.8	1023.4	1038.6	1040.1
20°	994.4	997.4	1003.5	1021.8	1023.4
22.5°	968.4	971.5	982.2	1000.5	1005.0
25°	939.5	944.0	956.2	979.1	983.7
27.5°	909.0	915.1	931.8	956.2	960.8
30°	875.4	884.6	902.9	930.3	934.9
32.5°	841.9	851.0	873.9	901.3	907.4
35°	805.3	815.9	841.9	873.9	881.5
37.5°	767.1	780.9	811.4	843.4	852.5
40°	729.0	744.3	777.8	811.4	822.0
42.5°	690.9	706.1	742.7	780.9	791.5
45°	648.2	669.5	709.2	748.8	758.0
47.5°	607.0	629.9	674.1	713.8	726.0
50°	567.3	590.2	637.5	678.7	690.9
52.5°	526.2	550.6	600.9	643.6	654.3
55°	485.0	510.9	564.3	605.5	614.6
57.5°	443.8	471.3	526.2	565.8	576.5
60°	402.6	431.6	485.0	524.6	532.3
62.5°	361.5	392.0	446.9	481.9	489.6
65°	320.3	353.8	408.7	440.8	449.9
67.5°	280.6	314.2	367.6	398.1	405.7
70°	244.0	274.5	327.9	350.8	353.8
72.5°	198.3	236.4	288.2	300.4	292.8
75°	160.1	198.3	242.5	237.9	228.8
77.5°	122.0	160.1	189.1	173.9	161.7
80°	86.9	125.1	131.2	108.3	102.2
82.5°	56.4	86.9	73.2	56.4	45.8
85°	29.0	41.2	22.9	18.3	15.3
87.5°	9.2	6.1	3.1	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)