

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: P275642

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275642
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

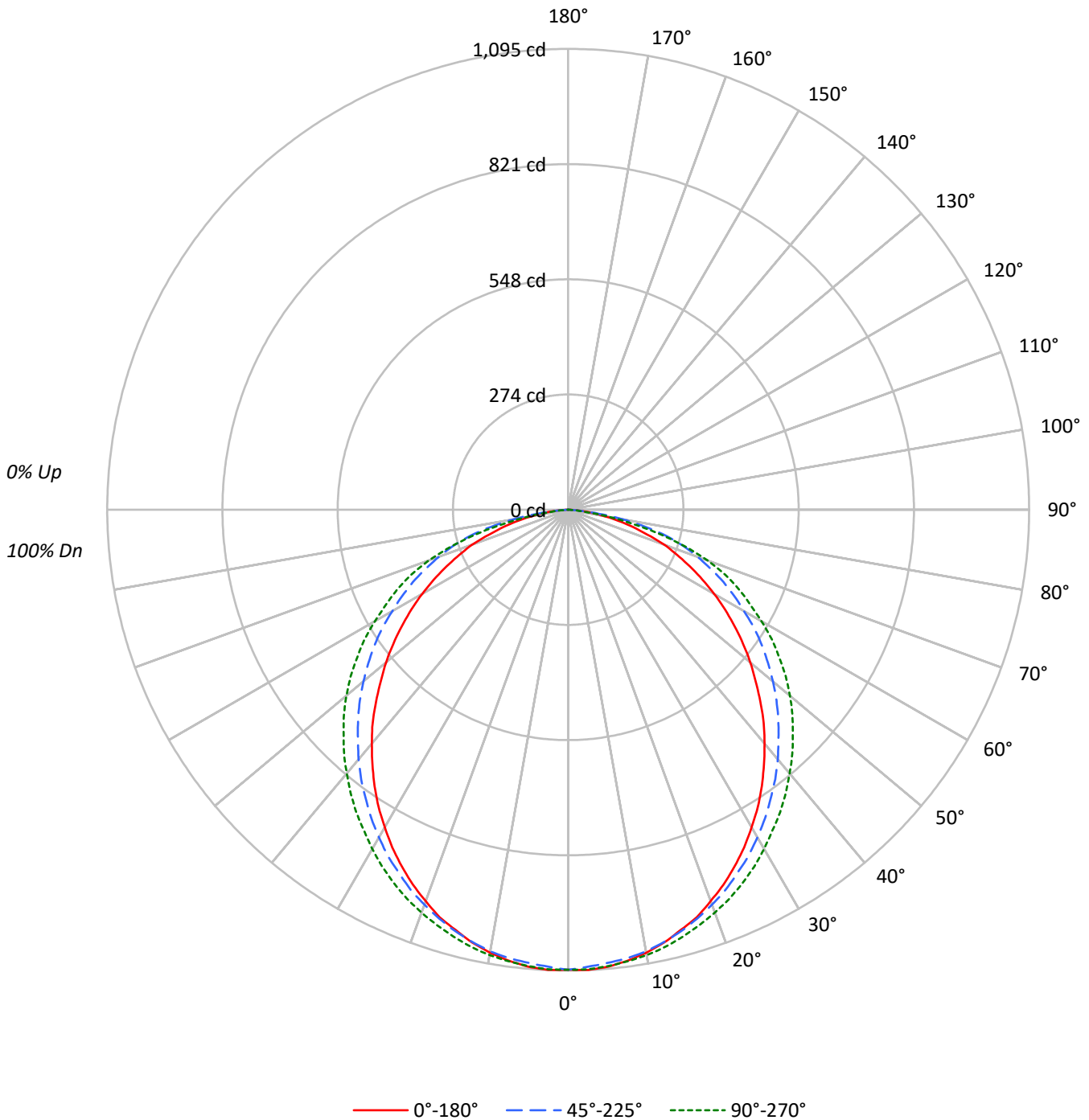
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	50	30	10	0		
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°	2942	2942	2942
5°	2944	2920	2940
10°	2920	2912	2937
15°	2880	2889	2927
20°	2834	2861	2917
25°	2777	2826	2907
30°	2708	2793	2892
35°	2633	2753	2883
40°	2549	2720	2875
45°	2455	2686	2871
50°	2364	2657	2879
55°	2265	2635	2870
60°	2157	2598	2851
65°	2030	2591	2852
70°	1911	2568	2771
75°	1657	2510	2367
80°	1340	2024	1576
85°	889	704	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.4
10°-20°	293.7	9.6
20°-30°	440.6	14.4
30°-40°	525.6	17.2
40°-50°	543.3	17.7
50°-60°	496.1	16.2
60°-70°	390.4	12.7
70°-80°	227.3	7.4
80°-90°	41.9	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°	837.5	27.4
0°-40°	1363.1	44.5
0°-60°	2402.5	78.5
0°-90°	3062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1090	1087	1081	1090	1088	103
15°	1034	1035	1037	1051	1051	292
25°	935	940	952	975	979	431
35°	802	812	838	870	878	501
45°	645	666	706	745	754	498
55°	483	509	562	603	612	432
65°	319	352	407	439	448	317
75°	159	197	241	237	228	169
85°	29	41	23	18	15	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1094.6	1091.6	1087.0	1094.6	1093.1
5°	1090.0	1087.0	1080.9	1090.0	1088.5
7.5°	1080.9	1077.9	1074.9	1084.0	1082.5
10°	1068.8	1067.3	1065.8	1076.4	1074.9
12.5°	1053.6	1053.6	1052.1	1064.2	1064.2
15°	1033.9	1035.4	1036.9	1050.6	1050.6
17.5°	1015.7	1014.1	1018.7	1033.9	1035.4
20°	989.8	992.9	999.0	1017.2	1018.7
22.5°	964.0	967.1	977.7	995.9	1000.5
25°	935.2	939.7	951.9	974.7	979.2
27.5°	904.8	910.9	927.6	951.9	956.4
30°	871.4	880.5	898.8	926.1	930.6
32.5°	838.0	847.1	869.9	897.2	903.3
35°	801.6	812.2	838.0	869.9	877.5
37.5°	763.6	777.3	807.7	839.5	848.7
40°	725.7	740.9	774.3	807.7	818.3
42.5°	687.7	702.9	739.3	777.3	787.9
45°	645.2	666.5	705.9	745.4	754.5
47.5°	604.2	627.0	671.0	710.5	722.6
50°	564.8	587.5	634.6	675.6	687.7
52.5°	523.8	548.1	598.2	640.7	651.3
55°	482.8	508.6	561.7	602.7	611.8
57.5°	441.8	469.1	523.8	563.2	573.9
60°	400.8	429.6	482.8	522.3	529.8
62.5°	359.8	390.2	444.8	479.7	487.3
65°	318.8	352.2	406.9	438.8	447.9
67.5°	279.3	312.7	365.9	396.2	403.8
70°	242.9	273.3	326.4	349.2	352.2
72.5°	197.4	235.3	286.9	299.1	291.5
75°	159.4	197.4	241.4	236.8	227.7
77.5°	121.5	159.4	188.3	173.1	160.9
80°	86.5	124.5	130.6	107.8	101.7
82.5°	56.2	86.5	72.9	56.2	45.5
85°	28.8	41.0	22.8	18.2	15.2
87.5°	9.1	6.1	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)