

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: P275399

Luminaire Tested: **14CZ2-29-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275399
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: 14CZ2-29-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2899.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

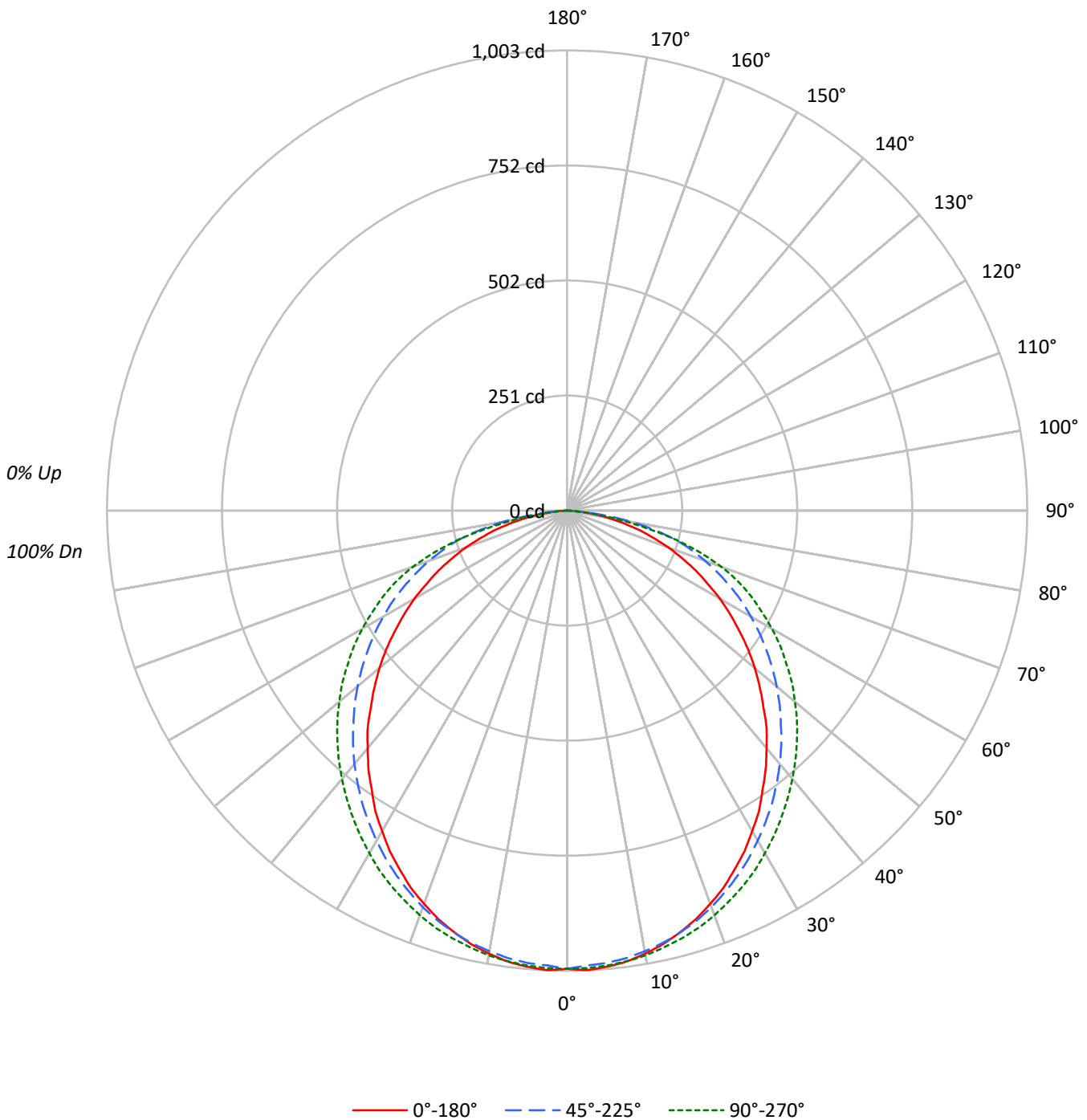
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2687	2687	2687
5°	2696	2673	2689
10°	2679	2665	2690
15°	2651	2653	2689
20°	2612	2634	2688
25°	2562	2608	2685
30°	2507	2581	2679
35°	2440	2559	2678
40°	2375	2534	2682
45°	2302	2507	2696
50°	2235	2495	2714
55°	2150	2487	2738
60°	2074	2491	2776
65°	1968	2499	2819
70°	1846	2518	2817
75°	1674	2540	2547
80°	1373	2194	1813
85°	1019	1037	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.3
10°-20°	270.0	9.3
20°-30°	406.7	14.0
30°-40°	488.0	16.8
40°-50°	508.6	17.5
50°-60°	470.9	16.2
60°-70°	380.5	13.1
70°-80°	232.0	8.0
80°-90°	47.9	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°	771.1	26.6
0°-40°	1259.1	43.4
0°-60°	2238.7	77.2
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	998	996	990	997	996	95
15°	952	952	952	965	965	268
25°	863	868	878	900	904	398
35°	743	754	779	807	815	465
45°	605	623	659	696	708	468
55°	458	482	530	571	584	411
65°	309	339	392	432	443	306
75°	161	196	244	248	245	169
85°	33	49	34	19	14	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.7	998.7	998.7	998.7	998.7
2.5°	1002.6	999.4	992.3	999.4	998.1
5°	998.1	995.5	989.7	996.8	995.5
7.5°	991.6	989.0	983.8	992.3	991.0
10°	980.6	979.3	975.4	985.1	984.5
12.5°	967.7	967.0	965.1	976.1	975.4
15°	951.5	952.2	952.2	965.1	965.1
17.5°	933.4	934.7	937.3	951.5	953.5
20°	912.1	914.7	919.9	936.0	938.6
22.5°	890.1	892.1	899.8	919.2	921.8
25°	863.0	868.1	878.5	900.5	904.3
27.5°	837.1	841.6	855.9	878.5	884.9
30°	806.7	813.8	830.6	855.2	862.3
32.5°	777.6	785.4	804.8	833.2	839.7
35°	742.7	754.4	778.9	807.4	815.1
37.5°	711.1	722.0	749.8	780.9	789.9
40°	676.2	689.7	721.4	754.4	763.4
42.5°	643.8	656.8	691.0	724.6	736.9
45°	605.0	623.1	658.7	695.5	708.5
47.5°	569.5	587.6	628.3	667.7	679.4
50°	533.9	553.3	596.0	636.7	648.4
52.5°	497.1	517.8	563.7	604.4	618.0
55°	458.3	482.2	530.1	571.4	583.7
57.5°	421.5	446.0	497.1	539.1	551.4
60°	385.3	410.5	462.8	502.9	515.8
62.5°	345.2	374.9	429.2	468.7	478.3
65°	309.0	339.4	392.4	431.8	442.8
67.5°	270.8	303.8	356.8	393.0	403.4
70°	234.6	268.9	320.0	353.6	358.1
72.5°	195.9	230.8	282.5	303.8	303.8
75°	161.0	196.5	244.3	248.2	245.0
77.5°	122.8	162.3	193.3	185.5	177.8
80°	88.6	127.3	141.6	127.3	117.0
82.5°	59.5	92.4	85.3	67.9	60.1
85°	33.0	49.1	33.6	18.7	13.6
87.5°	12.3	11.0	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)