

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: P275693

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275693
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2708.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

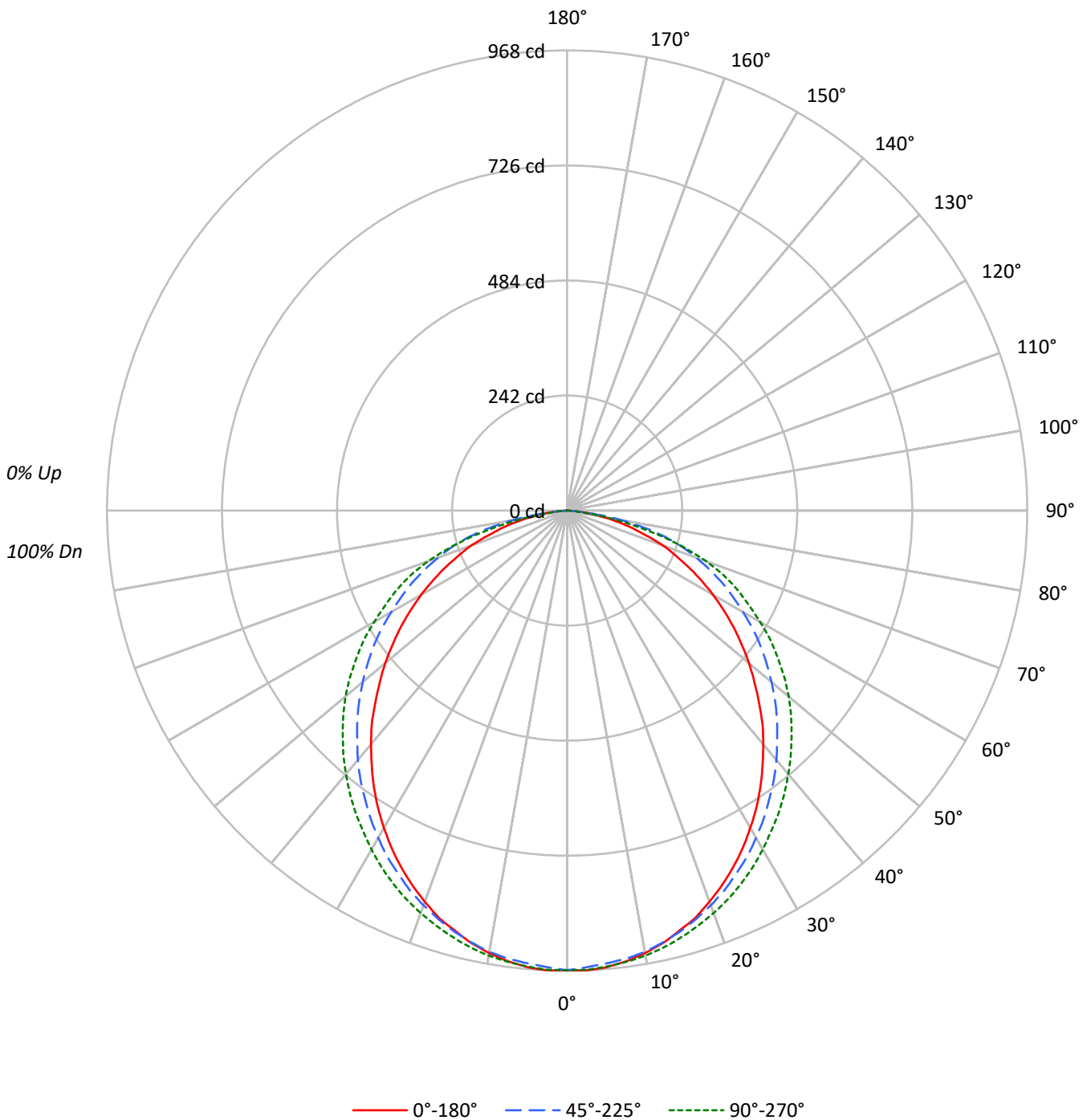
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2601	2601	2601
5°	2604	2582	2601
10°	2583	2575	2598
15°	2547	2555	2588
20°	2507	2530	2580
25°	2456	2499	2571
30°	2395	2470	2557
35°	2329	2435	2550
40°	2255	2406	2542
45°	2171	2376	2539
50°	2091	2349	2546
55°	2003	2331	2539
60°	1908	2298	2522
65°	1796	2291	2522
70°	1690	2271	2451
75°	1466	2220	2094
80°	1185	1790	1395
85°	787	621	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.4
10°-20°	259.8	9.6
20°-30°	389.7	14.4
30°-40°	464.8	17.2
40°-50°	480.5	17.7
50°-60°	438.7	16.2
60°-70°	345.3	12.7
70°-80°	201.0	7.4
80°-90°	37.0	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°	740.7	27.4
0°-40°	1205.5	44.5
0°-60°	2124.7	78.5
0°-90°	2708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	964	961	956	964	963	91
15°	914	916	917	929	929	258
25°	827	831	842	862	866	381
35°	709	718	741	769	776	443
45°	571	589	624	659	667	441
55°	427	450	497	533	541	382
65°	282	312	360	388	396	280
75°	141	174	214	210	201	150
85°	26	36	20	16	13	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.7	966.7	966.7	966.7	966.7
2.5°	968.1	965.4	961.3	968.1	966.7
5°	964.0	961.3	956.0	964.0	962.7
7.5°	956.0	953.3	950.6	958.7	957.3
10°	945.2	943.9	942.5	951.9	950.6
12.5°	931.8	931.8	930.5	941.2	941.2
15°	914.3	915.7	917.0	929.1	929.1
17.5°	898.2	896.9	900.9	914.3	915.7
20°	875.4	878.1	883.5	899.6	900.9
22.5°	852.6	855.3	864.7	880.8	884.8
25°	827.1	831.1	841.8	862.0	866.0
27.5°	800.2	805.6	820.4	841.8	845.9
30°	770.7	778.7	794.9	819.0	823.0
32.5°	741.1	749.2	769.3	793.5	798.9
35°	708.9	718.3	741.1	769.3	776.1
37.5°	675.4	687.4	714.3	742.5	750.5
40°	641.8	655.2	684.8	714.3	723.7
42.5°	608.2	621.6	653.9	687.4	696.8
45°	570.6	589.4	624.3	659.2	667.3
47.5°	534.4	554.5	593.5	628.4	639.1
50°	499.5	519.6	561.2	597.5	608.2
52.5°	463.2	484.7	529.0	566.6	576.0
55°	427.0	449.8	496.8	533.0	541.1
57.5°	390.7	414.9	463.2	498.1	507.5
60°	354.5	380.0	427.0	461.9	468.6
62.5°	318.2	345.1	393.4	424.3	431.0
65°	282.0	311.5	359.8	388.0	396.1
67.5°	247.0	276.6	323.6	350.4	357.1
70°	214.8	241.7	288.7	308.8	311.5
72.5°	174.5	208.1	253.8	264.5	257.8
75°	141.0	174.5	213.5	209.5	201.4
77.5°	107.4	141.0	166.5	153.1	142.3
80°	76.5	110.1	115.5	95.3	90.0
82.5°	49.7	76.5	64.4	49.7	40.3
85°	25.5	36.3	20.1	16.1	13.4
87.5°	8.1	5.4	2.7	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)