

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: P275635

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275635
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

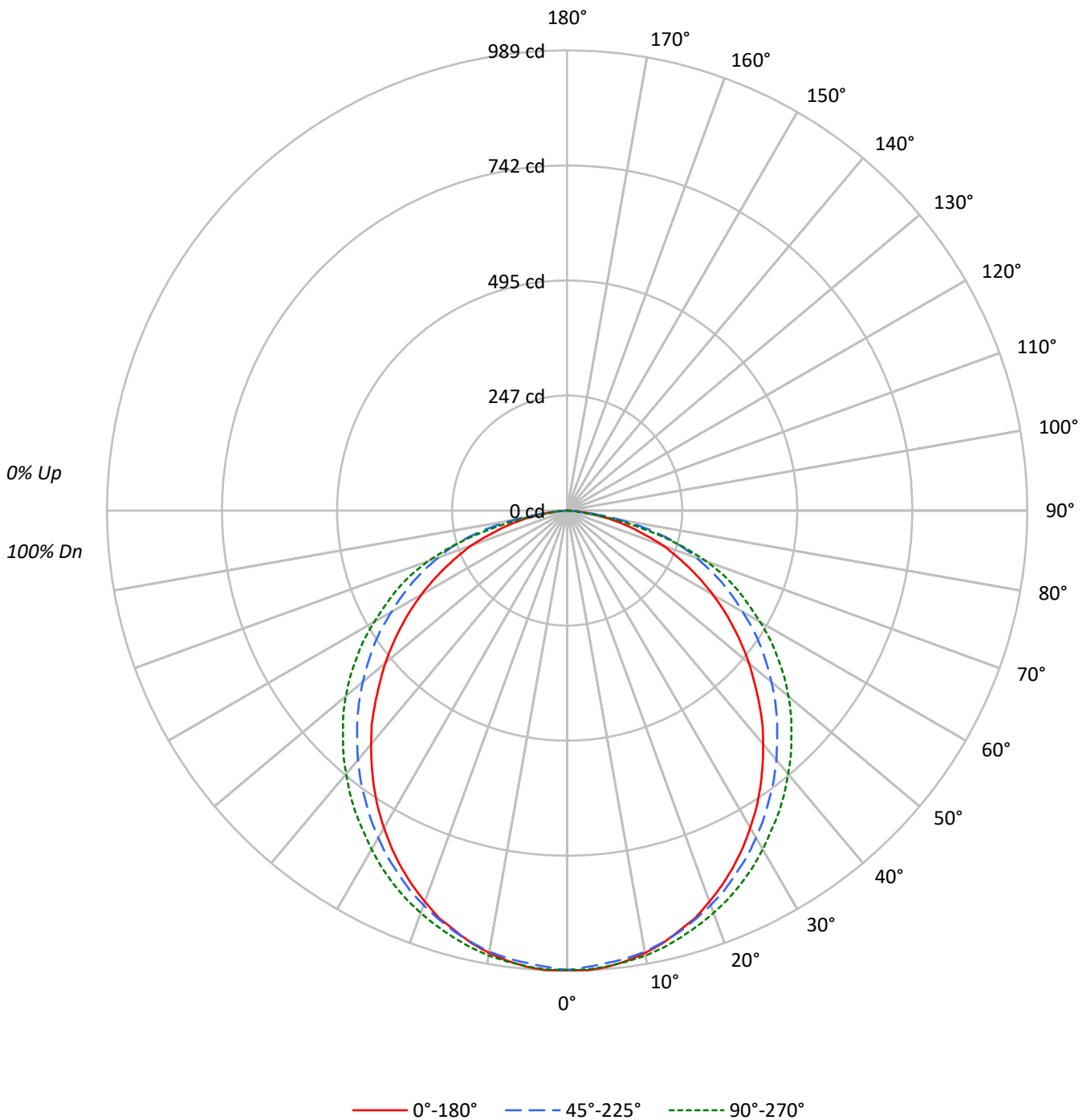
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2657	2657	2657
5°	2660	2638	2656
10°	2638	2631	2653
15°	2602	2610	2644
20°	2561	2584	2635
25°	2508	2553	2627
30°	2446	2523	2612
35°	2379	2487	2604
40°	2303	2457	2597
45°	2218	2427	2594
50°	2136	2400	2601
55°	2046	2381	2593
60°	1949	2347	2576
65°	1834	2340	2576
70°	1726	2320	2504
75°	1497	2268	2139
80°	1212	1827	1424
85°	806	636	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.4
10°-20°	265.3	9.6
20°-30°	398.0	14.4
30°-40°	474.8	17.2
40°-50°	490.8	17.7
50°-60°	448.1	16.2
60°-70°	352.6	12.7
70°-80°	205.3	7.4
80°-90°	37.8	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°	756.6	27.4
0°-40°	1231.3	44.5
0°-60°	2170.2	78.5
0°-90°	2766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	985	982	976	985	983	93
15°	934	935	937	949	949	264
25°	845	849	860	880	885	389
35°	724	734	757	786	793	453
45°	583	602	638	673	682	450
55°	436	459	507	544	553	390
65°	288	318	368	396	405	286
75°	144	178	218	214	206	153
85°	26	37	21	16	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.4	987.4	987.4	987.4	987.4
2.5°	988.8	986.0	981.9	988.8	987.4
5°	984.7	981.9	976.4	984.7	983.3
7.5°	976.4	973.7	971.0	979.2	977.8
10°	965.5	964.1	962.7	972.3	971.0
12.5°	951.8	951.8	950.4	961.4	961.4
15°	933.9	935.3	936.7	949.0	949.0
17.5°	917.5	916.1	920.2	933.9	935.3
20°	894.2	896.9	902.4	918.8	920.2
22.5°	870.8	873.6	883.2	899.6	903.8
25°	844.8	848.9	859.9	880.4	884.6
27.5°	817.4	822.8	837.9	859.9	864.0
30°	787.2	795.4	811.9	836.6	840.7
32.5°	757.0	765.2	785.8	810.5	816.0
35°	724.1	733.7	757.0	785.8	792.7
37.5°	689.8	702.2	729.6	758.4	766.6
40°	655.5	669.2	699.4	729.6	739.2
42.5°	621.2	635.0	667.9	702.2	711.8
45°	582.8	602.0	637.7	673.4	681.6
47.5°	545.8	566.4	606.2	641.8	652.8
50°	510.2	530.7	573.2	610.3	621.2
52.5°	473.1	495.1	540.3	578.7	588.3
55°	436.1	459.4	507.4	544.5	552.7
57.5°	399.1	423.8	473.1	508.8	518.4
60°	362.1	388.1	436.1	471.8	478.6
62.5°	325.0	352.5	401.8	433.4	440.2
65°	288.0	318.2	367.5	396.3	404.6
67.5°	252.3	282.5	330.5	357.9	364.8
70°	219.4	246.9	294.9	315.4	318.2
72.5°	178.3	212.6	259.2	270.2	263.3
75°	144.0	178.3	218.1	213.9	205.7
77.5°	109.7	144.0	170.1	156.3	145.4
80°	78.2	112.5	117.9	97.4	91.9
82.5°	50.7	78.2	65.8	50.7	41.1
85°	26.1	37.0	20.6	16.5	13.7
87.5°	8.2	5.5	2.7	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)