

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: P275466

Luminaire Tested: **14CZ2-29-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275466
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2660.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

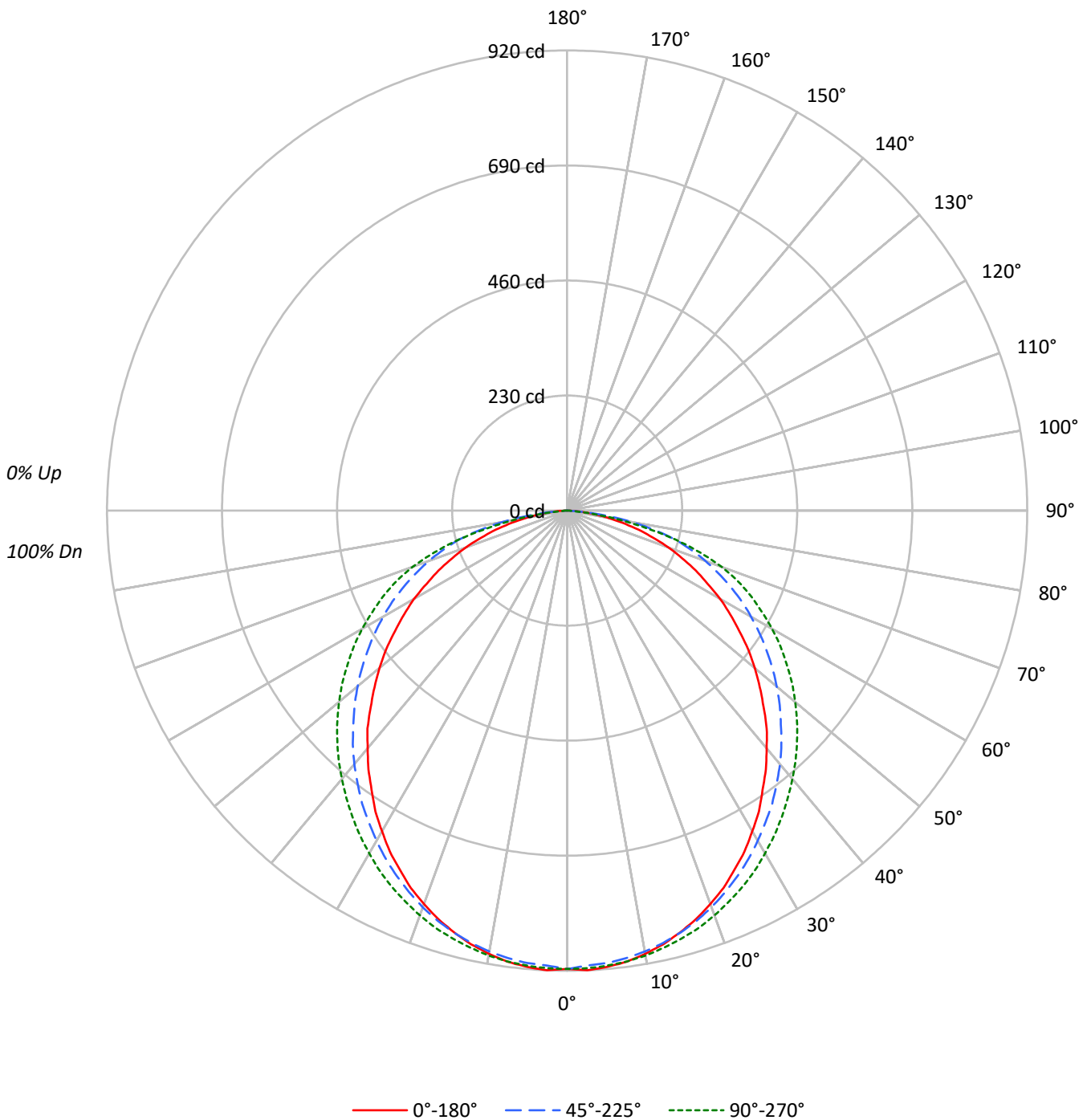
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2466	2466	2466
5°	2474	2453	2467
10°	2459	2446	2468
15°	2432	2434	2467
20°	2397	2417	2466
25°	2351	2393	2464
30°	2300	2368	2458
35°	2239	2348	2457
40°	2179	2325	2461
45°	2113	2300	2474
50°	2051	2290	2491
55°	1973	2282	2513
60°	1903	2286	2547
65°	1805	2292	2587
70°	1694	2310	2585
75°	1536	2331	2337
80°	1260	2013	1664
85°	932	951	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.3
10°-20°	247.7	9.3
20°-30°	373.1	14.0
30°-40°	447.8	16.8
40°-50°	466.7	17.5
50°-60°	432.1	16.2
60°-70°	349.1	13.1
70°-80°	212.8	8.0
80°-90°	44.0	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°	707.6	26.6
0°-40°	1155.3	43.4
0°-60°	2054.1	77.2
0°-90°	2660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	916	913	908	915	913	87
15°	873	874	874	886	886	246
25°	792	797	806	826	830	365
35°	682	692	715	741	748	427
45°	555	572	604	638	650	429
55°	420	442	486	524	536	377
65°	284	311	360	396	406	280
75°	148	180	224	228	225	155
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.4	916.4	916.4	916.4	916.4
2.5°	919.9	917.0	910.4	917.0	915.8
5°	915.8	913.4	908.1	914.6	913.4
7.5°	909.9	907.5	902.7	910.4	909.3
10°	899.8	898.6	895.0	903.9	903.3
12.5°	887.9	887.3	885.5	895.6	895.0
15°	873.1	873.7	873.7	885.5	885.5
17.5°	856.5	857.7	860.0	873.1	874.9
20°	836.9	839.3	844.0	858.8	861.2
22.5°	816.7	818.5	825.6	843.4	845.8
25°	791.8	796.6	806.1	826.2	829.8
27.5°	768.1	772.2	785.3	806.1	812.0
30°	740.2	746.7	762.2	784.7	791.2
32.5°	713.5	720.6	738.4	764.5	770.5
35°	681.5	692.2	714.7	740.8	747.9
37.5°	652.4	662.5	688.0	716.5	724.8
40°	620.4	632.9	661.9	692.2	700.5
42.5°	590.8	602.6	634.1	664.9	676.2
45°	555.2	571.8	604.4	638.2	650.1
47.5°	522.5	539.2	576.5	612.7	623.4
50°	489.9	507.7	546.9	584.2	594.9
52.5°	456.1	475.1	517.2	554.6	567.0
55°	420.5	442.5	486.4	524.3	535.6
57.5°	386.7	409.3	456.1	494.7	505.9
60°	353.5	376.6	424.7	461.5	473.3
62.5°	316.7	344.0	393.8	430.0	438.9
65°	283.5	311.4	360.0	396.2	406.3
67.5°	248.5	278.8	327.4	360.6	370.1
70°	215.3	246.7	293.6	324.4	328.6
72.5°	179.7	211.7	259.2	278.8	278.8
75°	147.7	180.3	224.2	227.8	224.8
77.5°	112.7	148.9	177.3	170.2	163.1
80°	81.3	116.8	129.9	116.8	107.4
82.5°	54.6	84.8	78.3	62.3	55.2
85°	30.2	45.1	30.8	17.2	12.5
87.5°	11.3	10.1	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)