

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: P275692

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275692
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2654.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

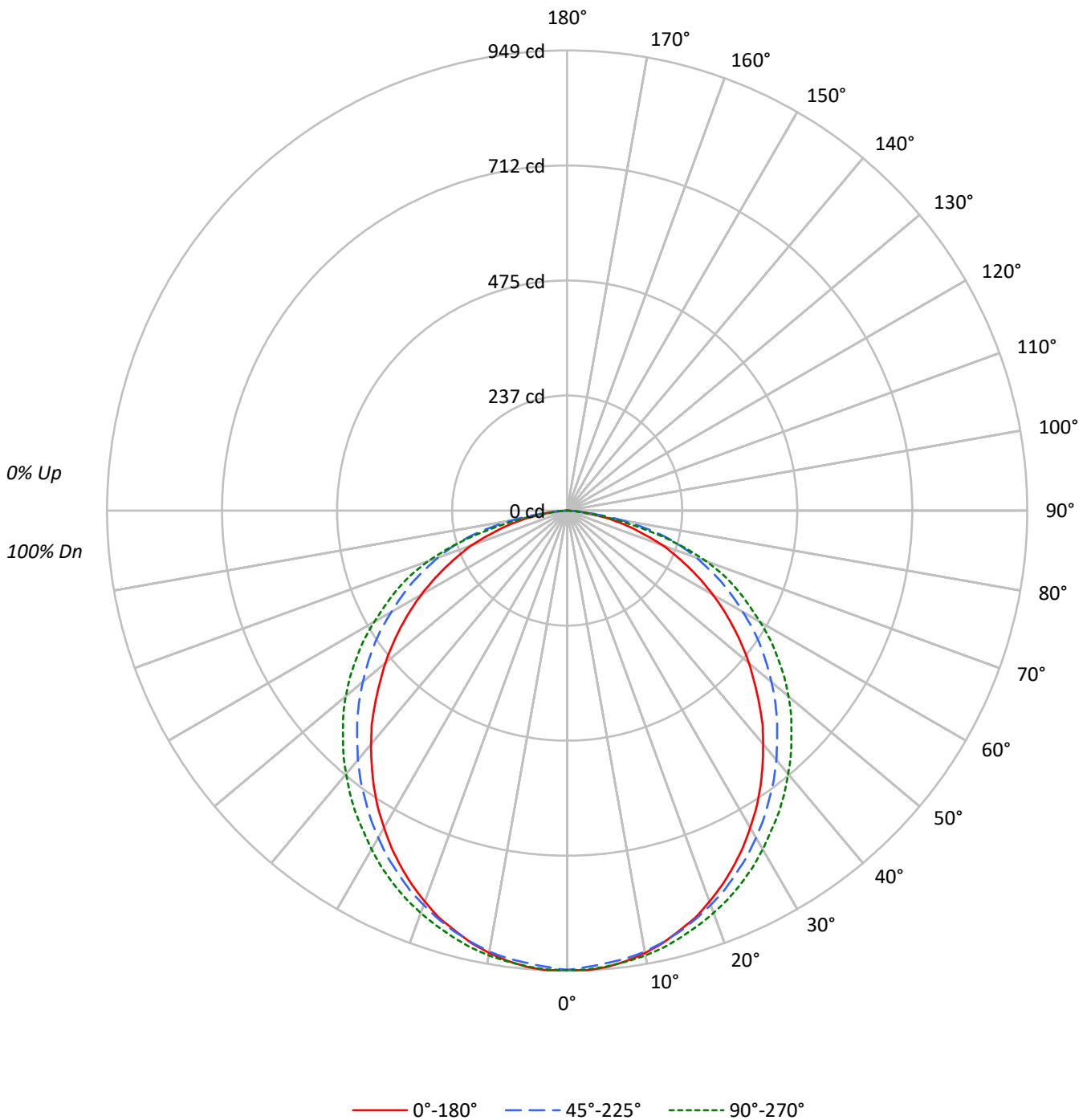
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2549	2549	2549
5°	2552	2531	2549
10°	2531	2524	2546
15°	2496	2504	2537
20°	2457	2479	2529
25°	2407	2450	2520
30°	2347	2421	2506
35°	2282	2386	2499
40°	2210	2357	2492
45°	2128	2329	2489
50°	2049	2303	2496
55°	1963	2284	2488
60°	1870	2252	2471
65°	1759	2246	2472
70°	1656	2226	2402
75°	1437	2175	2052
80°	1162	1754	1367
85°	772	608	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.4
10°-20°	254.6	9.6
20°-30°	381.9	14.4
30°-40°	455.5	17.2
40°-50°	470.9	17.7
50°-60°	430.0	16.2
60°-70°	338.4	12.7
70°-80°	197.0	7.4
80°-90°	36.3	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°	725.9	27.4
0°-40°	1181.5	44.5
0°-60°	2082.4	78.5
0°-90°	2654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	945	942	937	945	944	90
15°	896	897	899	911	911	253
25°	811	814	825	845	849	373
35°	695	704	726	754	761	434
45°	559	578	612	646	654	432
55°	418	441	487	522	530	374
65°	276	305	353	380	388	274
75°	138	171	209	205	197	147
85°	25	36	20	16	13	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.4	947.4	947.4	947.4	947.4
2.5°	948.7	946.1	942.2	948.7	947.4
5°	944.8	942.2	936.9	944.8	943.5
7.5°	936.9	934.3	931.6	939.5	938.2
10°	926.4	925.1	923.7	933.0	931.6
12.5°	913.2	913.2	911.9	922.4	922.4
15°	896.1	897.4	898.7	910.6	910.6
17.5°	880.3	879.0	883.0	896.1	897.4
20°	858.0	860.6	865.8	881.6	883.0
22.5°	835.6	838.2	847.4	863.2	867.2
25°	810.6	814.5	825.1	844.8	848.7
27.5°	784.3	789.5	804.0	825.1	829.0
30°	755.3	763.2	779.0	802.7	806.6
32.5°	726.4	734.3	754.0	777.7	782.9
35°	694.8	704.0	726.4	754.0	760.6
37.5°	661.9	673.7	700.0	727.7	735.6
40°	629.0	642.1	671.1	700.0	709.3
42.5°	596.1	609.3	640.8	673.7	682.9
45°	559.2	577.7	611.9	646.1	654.0
47.5°	523.7	543.5	581.6	615.8	626.4
50°	489.5	509.2	550.0	585.6	596.1
52.5°	454.0	475.0	518.5	555.3	564.5
55°	418.5	440.8	486.9	522.4	530.3
57.5°	382.9	406.6	454.0	488.2	497.4
60°	347.4	372.4	418.5	452.7	459.2
62.5°	311.9	338.2	385.6	415.8	422.4
65°	276.3	305.3	352.7	380.3	388.2
67.5°	242.1	271.1	317.1	343.4	350.0
70°	210.5	236.9	282.9	302.7	305.3
72.5°	171.1	204.0	248.7	259.2	252.6
75°	138.2	171.1	209.2	205.3	197.4
77.5°	105.3	138.2	163.2	150.0	139.5
80°	75.0	107.9	113.2	93.4	88.2
82.5°	48.7	75.0	63.2	48.7	39.5
85°	25.0	35.5	19.7	15.8	13.2
87.5°	7.9	5.3	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)