

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: P277460

Luminaire Tested: **22CZ2-29HE-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

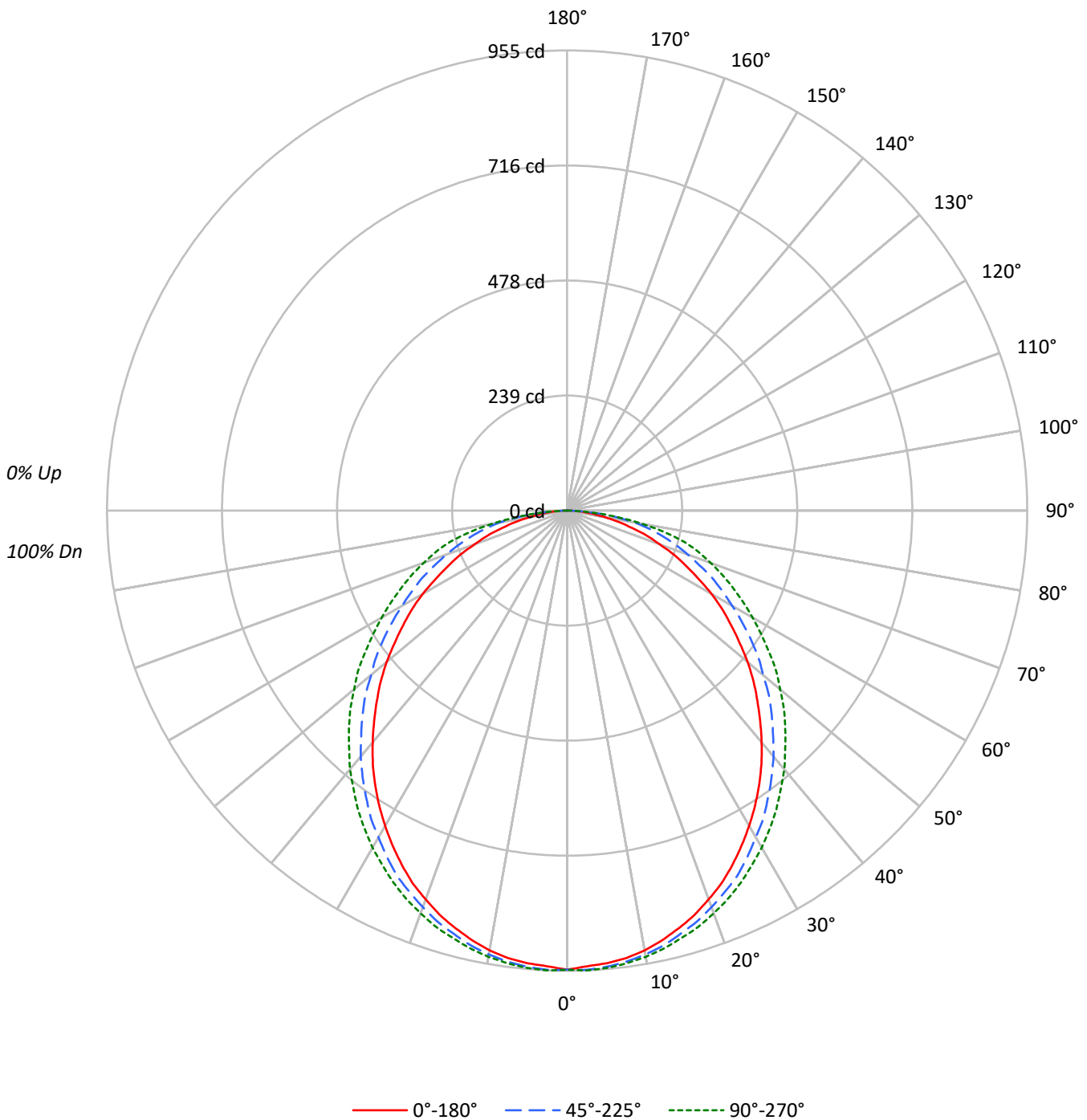
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	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	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2564	2564	2564
5°	2547	2567	2574
10°	2532	2556	2570
15°	2499	2534	2558
20°	2458	2508	2547
25°	2409	2483	2531
30°	2348	2432	2509
35°	2282	2388	2486
40°	2205	2340	2462
45°	2125	2285	2436
50°	2046	2223	2415
55°	1950	2183	2398
60°	1863	2130	2390
65°	1738	2117	2417
70°	1601	2098	2489
75°	1445	2128	2618
80°	1249	2191	2461
85°	1034	1840	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.4
10°-20°	256.4	9.6
20°-30°	383.7	14.4
30°-40°	454.4	17.1
40°-50°	463.1	17.4
50°-60°	415.0	15.6
60°-70°	324.9	12.2
70°-80°	209.5	7.9
80°-90°	61.9	2.3
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°	730.2	27.5
0°-40°	1184.6	44.5
0°-60°	2062.6	77.6
0°-90°	2659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	943	945	950	952	953	90
15°	897	902	909	917	918	253
25°	811	819	836	847	852	373
35°	695	703	727	749	757	434
45°	558	571	600	632	640	431
55°	416	429	465	498	511	373
65°	273	289	332	365	380	271
75°	139	160	205	239	252	149
85°	34	46	60	60	60	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.8	952.8	952.8	952.8	952.8
2.5°	946.6	949.1	954.0	955.3	955.3
5°	942.9	945.4	950.3	951.6	952.8
7.5°	936.7	937.9	944.1	946.6	947.8
10°	926.7	929.2	935.4	939.2	940.4
12.5°	913.1	916.8	924.3	929.2	930.5
15°	897.0	901.9	909.4	916.8	918.1
17.5°	879.6	884.6	894.5	903.2	905.7
20°	858.5	864.7	875.9	885.8	889.5
22.5°	837.4	842.4	856.0	868.4	872.2
25°	811.4	818.8	836.2	847.3	852.3
27.5°	784.1	792.8	810.1	825.0	830.0
30°	755.5	764.2	782.8	801.4	807.6
32.5°	725.8	735.7	758.0	776.6	782.8
35°	694.8	703.4	727.0	749.3	756.8
37.5°	662.5	669.9	697.2	720.8	728.2
40°	627.8	637.7	666.2	693.5	701.0
42.5°	593.0	604.2	632.7	662.5	669.9
45°	558.3	570.7	600.5	631.5	640.2
47.5°	524.8	534.7	568.2	598.0	610.4
50°	488.8	498.7	531.0	564.5	576.9
52.5°	451.6	465.2	500.0	532.2	547.1
55°	415.6	429.3	465.2	497.5	511.1
57.5°	382.1	393.3	430.5	464.0	477.6
60°	346.1	356.1	395.8	431.7	444.1
62.5°	307.7	322.6	363.5	397.0	411.9
65°	272.9	289.1	332.5	364.7	379.6
67.5°	240.7	255.6	297.8	332.5	348.6
70°	203.5	223.3	266.7	301.5	316.4
72.5°	173.7	191.1	235.7	270.5	286.6
75°	139.0	160.0	204.7	239.4	251.8
77.5°	110.4	131.5	173.7	201.0	207.2
80°	80.6	101.7	141.4	155.1	158.8
82.5°	54.6	74.4	101.7	105.5	106.7
85°	33.5	45.9	59.6	59.6	59.6
87.5°	16.1	18.6	21.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)