

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: P277239

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 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: 2939.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

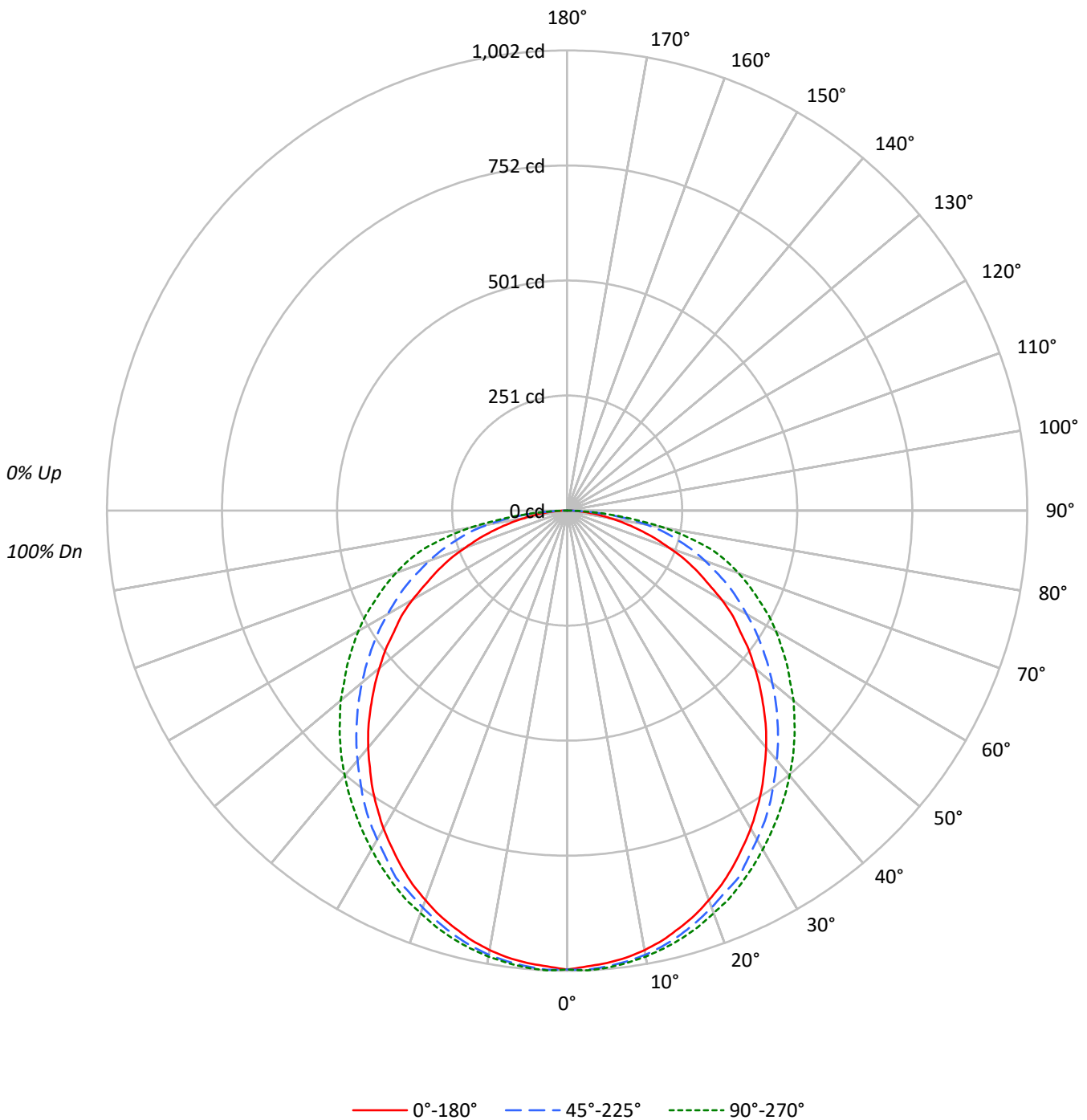
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56					56			
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32					32			
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28					28			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25					25			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2689	2689	2689
5°	2672	2692	2699
10°	2655	2683	2695
15°	2623	2663	2687
20°	2584	2634	2671
25°	2538	2619	2662
30°	2485	2570	2647
35°	2428	2537	2642
40°	2367	2494	2647
45°	2300	2466	2664
50°	2234	2440	2694
55°	2158	2429	2741
60°	2094	2428	2826
65°	1989	2468	2928
70°	1854	2515	3118
75°	1699	2601	3368
80°	1478	2712	3316
85°	1294	2411	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.2
10°-20°	269.2	9.2
20°-30°	404.1	13.7
30°-40°	482.9	16.4
40°-50°	502.1	17.1
50°-60°	465.4	15.8
60°-70°	381.7	13.0
70°-80°	258.0	8.8
80°-90°	81.1	2.8
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°	767.8	26.1
0°-40°	1250.7	42.6
0°-60°	2218.1	75.5
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	989	991	996	998	999	94
15°	942	946	956	962	965	266
25°	855	862	882	892	897	394
35°	739	749	772	795	804	462
45°	604	616	648	686	700	467
55°	460	474	518	564	584	413
65°	312	330	388	438	460	309
75°	163	191	250	301	324	173
85°	42	58	78	87	85	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.3	999.3	999.3	999.3	999.3
2.5°	993.5	996.4	1000.8	1002.2	1002.2
5°	989.2	990.6	996.4	997.9	999.3
7.5°	982.0	984.9	990.6	992.1	993.5
10°	971.8	974.7	982.0	984.9	986.3
12.5°	958.8	961.7	970.4	974.7	976.2
15°	941.5	945.8	955.9	961.7	964.6
17.5°	924.1	928.5	938.6	947.3	950.1
20°	902.4	912.5	919.8	931.3	932.8
22.5°	880.7	886.5	899.5	911.1	916.9
25°	854.7	861.9	882.2	892.3	896.6
27.5°	827.2	837.3	853.2	869.2	874.9
30°	799.7	807.0	827.2	846.0	851.8
32.5°	769.4	779.5	801.2	820.0	828.7
35°	739.0	749.1	772.3	795.4	804.1
37.5°	705.7	717.3	740.4	767.9	779.5
40°	673.9	682.6	710.1	743.3	753.5
42.5°	640.7	650.8	679.7	715.9	727.4
45°	604.5	616.1	647.9	685.5	700.0
47.5°	569.8	581.4	616.1	653.7	671.0
50°	533.6	548.1	582.8	626.2	643.6
52.5°	498.9	511.9	551.0	595.8	611.7
55°	459.9	474.3	517.7	564.0	584.3
57.5°	428.1	438.2	485.9	533.6	553.9
60°	389.0	402.0	451.2	501.8	525.0
62.5°	347.1	368.8	419.4	471.5	494.6
65°	312.4	329.7	387.6	438.2	459.9
67.5°	276.2	295.0	351.4	404.9	429.5
70°	235.7	260.3	319.6	373.1	396.3
72.5°	199.6	225.6	286.3	338.4	363.0
75°	163.4	190.9	250.2	300.8	323.9
77.5°	128.7	159.1	216.9	256.0	270.4
80°	95.4	124.4	175.0	202.5	214.0
82.5°	66.5	91.1	128.7	143.2	146.1
85°	41.9	57.8	78.1	86.8	85.3
87.5°	18.8	23.1	28.9	31.8	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)