

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: P277240

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277240
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-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

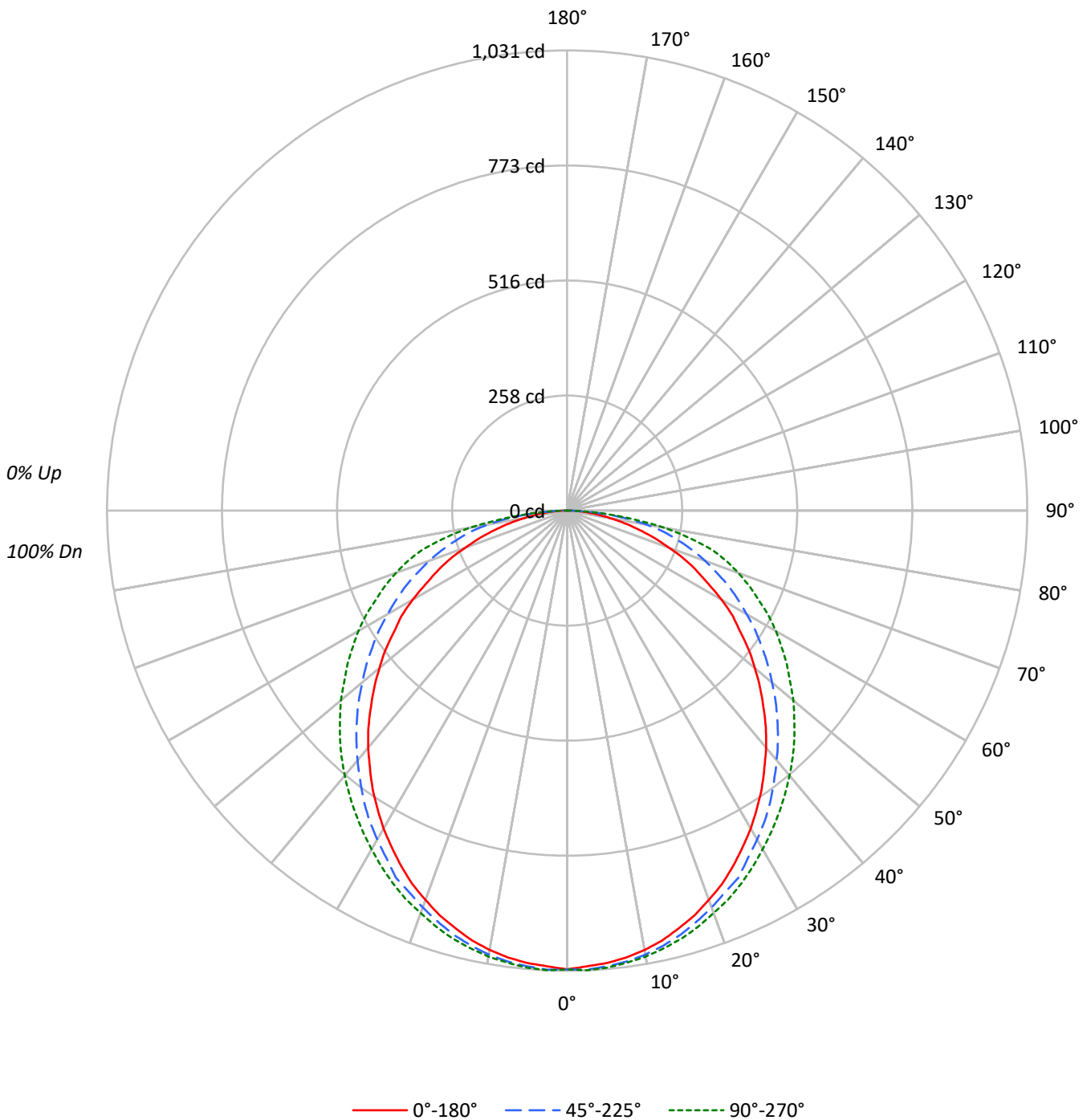
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2766	2766	2766
5°	2749	2769	2777
10°	2731	2760	2772
15°	2698	2739	2764
20°	2658	2709	2747
25°	2610	2694	2738
30°	2556	2644	2722
35°	2497	2609	2717
40°	2435	2566	2722
45°	2366	2536	2740
50°	2298	2510	2771
55°	2219	2498	2820
60°	2153	2498	2906
65°	2046	2539	3012
70°	1908	2586	3207
75°	1748	2675	3464
80°	1522	2789	3412
85°	1331	2479	2711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.2
10°-20°	276.9	9.2
20°-30°	415.7	13.7
30°-40°	496.7	16.4
40°-50°	516.5	17.1
50°-60°	478.7	15.8
60°-70°	392.6	13.0
70°-80°	265.4	8.8
80°-90°	83.4	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°	789.7	26.1
0°-40°	1286.4	42.6
0°-60°	2281.5	75.5
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1018	1019	1025	1026	1028	97
15°	968	973	983	989	992	273
25°	879	887	907	918	922	405
35°	760	770	794	818	827	475
45°	622	634	666	705	720	480
55°	473	488	532	580	601	425
65°	321	339	399	451	473	318
75°	168	196	257	309	333	178
85°	43	60	80	89	88	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.9	1027.9	1027.9	1027.9	1027.9
2.5°	1021.9	1024.9	1029.4	1030.9	1030.9
5°	1017.5	1019.0	1024.9	1026.4	1027.9
7.5°	1010.0	1013.0	1019.0	1020.4	1021.9
10°	999.6	1002.6	1010.0	1013.0	1014.5
12.5°	986.2	989.2	998.1	1002.6	1004.1
15°	968.4	972.8	983.3	989.2	992.2
17.5°	950.5	955.0	965.4	974.3	977.3
20°	928.2	938.6	946.1	958.0	959.4
22.5°	905.9	911.8	925.2	937.1	943.1
25°	879.1	886.6	907.4	917.8	922.3
27.5°	850.9	861.3	877.6	894.0	899.9
30°	822.6	830.0	850.9	870.2	876.1
32.5°	791.4	801.8	824.1	843.4	852.3
35°	760.1	770.5	794.3	818.1	827.1
37.5°	725.9	737.8	761.6	789.9	801.8
40°	693.2	702.1	730.4	764.6	775.0
42.5°	659.0	669.4	699.1	736.3	748.2
45°	621.8	633.7	666.4	705.1	720.0
47.5°	586.1	598.0	633.7	672.4	690.2
50°	548.9	563.8	599.5	644.1	661.9
52.5°	513.2	526.6	566.7	612.9	629.2
55°	473.0	487.9	532.5	580.1	601.0
57.5°	440.3	450.7	499.8	548.9	569.7
60°	400.1	413.5	464.1	516.2	540.0
62.5°	357.0	379.3	431.4	484.9	508.7
65°	321.3	339.2	398.7	450.7	473.0
67.5°	284.1	303.5	361.5	416.5	441.8
70°	242.5	267.8	328.7	383.8	407.6
72.5°	205.3	232.1	294.5	348.1	373.4
75°	168.1	196.4	257.3	309.4	333.2
77.5°	132.4	163.6	223.1	263.3	278.2
80°	98.2	127.9	180.0	208.3	220.2
82.5°	68.4	93.7	132.4	147.3	150.2
85°	43.1	59.5	80.3	89.3	87.8
87.5°	19.3	23.8	29.8	32.7	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)