

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: P277464

Luminaire Tested: **22CZ2-34HE-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277464
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: 22CZ2-34HE-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2983.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

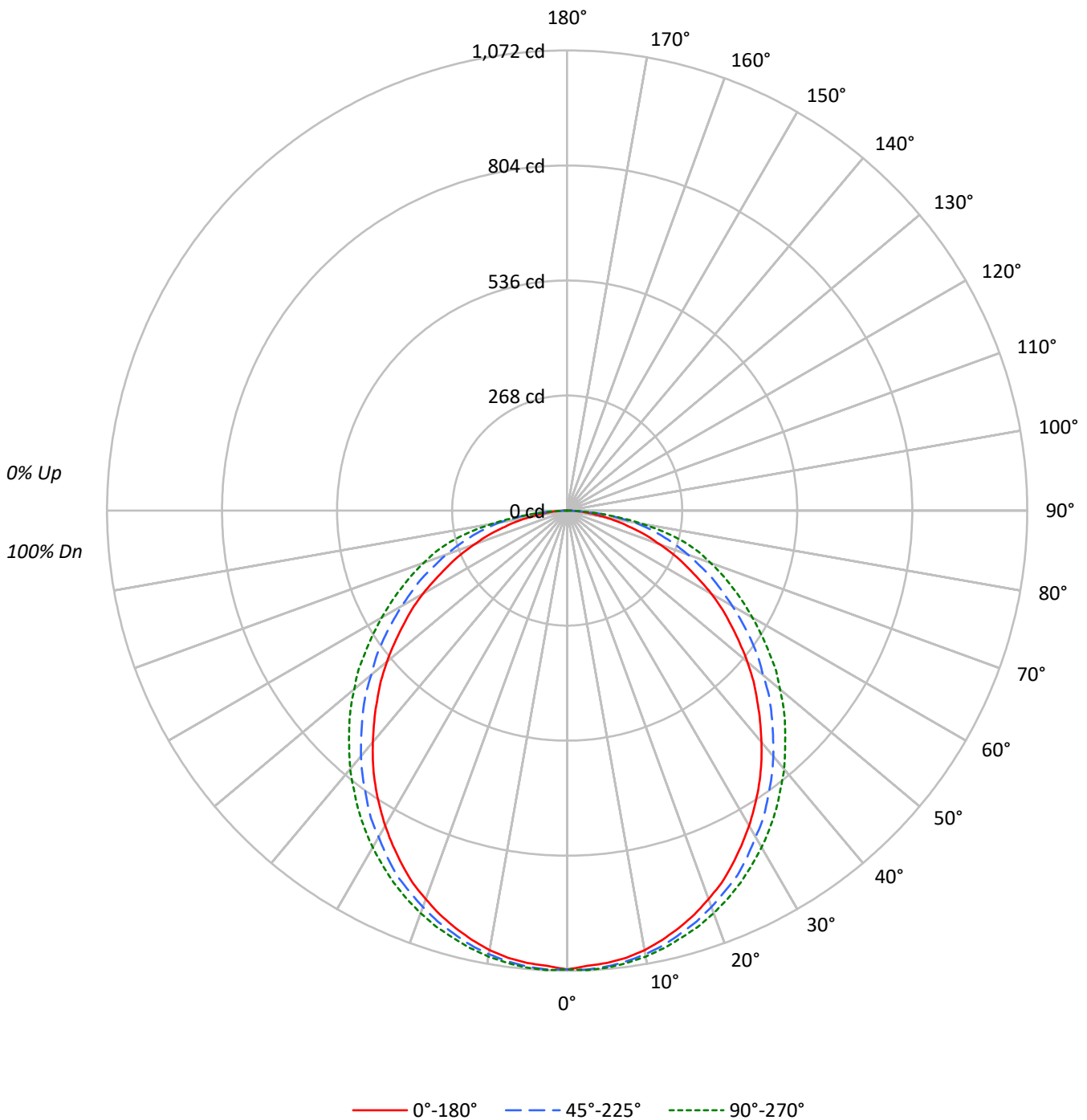
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2876	2876	2876
5°	2857	2880	2887
10°	2841	2867	2883
15°	2803	2842	2869
20°	2758	2814	2858
25°	2703	2785	2839
30°	2634	2729	2816
35°	2560	2679	2789
40°	2474	2625	2762
45°	2383	2563	2733
50°	2296	2494	2709
55°	2188	2449	2690
60°	2090	2390	2682
65°	1950	2375	2712
70°	1796	2354	2792
75°	1621	2387	2937
80°	1402	2459	2762
85°	1161	2062	2062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.4
10°-20°	287.7	9.6
20°-30°	430.4	14.4
30°-40°	509.7	17.1
40°-50°	519.5	17.4
50°-60°	465.6	15.6
60°-70°	364.5	12.2
70°-80°	235.0	7.9
80°-90°	69.4	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°	819.2	27.5
0°-40°	1328.9	44.5
0°-60°	2314.0	77.6
0°-90°	2983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1058	1061	1066	1068	1069	100
15°	1006	1012	1020	1028	1030	284
25°	910	919	938	951	956	419
35°	779	789	816	841	849	487
45°	626	640	674	708	718	484
55°	466	482	522	558	573	418
65°	306	324	373	409	426	304
75°	156	180	230	269	282	167
85°	38	52	67	67	67	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.9	1068.9	1068.9	1068.9	1068.9
2.5°	1061.9	1064.7	1070.3	1071.7	1071.7
5°	1057.8	1060.6	1066.1	1067.5	1068.9
7.5°	1050.8	1052.2	1059.2	1061.9	1063.3
10°	1039.7	1042.5	1049.4	1053.6	1055.0
12.5°	1024.4	1028.5	1036.9	1042.5	1043.8
15°	1006.3	1011.8	1020.2	1028.5	1029.9
17.5°	986.8	992.4	1003.5	1013.2	1016.0
20°	963.1	970.1	982.6	993.7	997.9
22.5°	939.5	945.0	960.3	974.3	978.4
25°	910.2	918.6	938.1	950.6	956.2
27.5°	879.6	889.4	908.8	925.5	931.1
30°	847.6	857.3	878.2	899.1	906.1
32.5°	814.2	825.3	850.4	871.3	878.2
35°	779.4	789.2	815.6	840.6	849.0
37.5°	743.2	751.6	782.2	808.6	817.0
40°	704.3	715.4	747.4	778.0	786.4
42.5°	665.3	677.8	709.8	743.2	751.6
45°	626.3	640.2	673.6	708.4	718.2
47.5°	588.7	599.9	637.4	670.8	684.8
50°	548.4	559.5	595.7	633.3	647.2
52.5°	506.6	521.9	560.9	597.1	613.8
55°	466.3	481.6	521.9	558.1	573.4
57.5°	428.7	441.2	483.0	520.5	535.8
60°	388.3	399.4	444.0	484.3	498.3
62.5°	345.2	361.9	407.8	445.4	462.1
65°	306.2	324.3	373.0	409.2	425.9
67.5°	270.0	286.7	334.0	373.0	391.1
70°	228.3	250.5	299.2	338.2	354.9
72.5°	194.9	214.3	264.4	303.4	321.5
75°	155.9	179.5	229.6	268.6	282.5
77.5°	123.9	147.5	194.9	225.5	232.4
80°	90.5	114.1	158.7	174.0	178.2
82.5°	61.2	83.5	114.1	118.3	119.7
85°	37.6	51.5	66.8	66.8	66.8
87.5°	18.1	20.9	23.7	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)