

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: P277244

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277244
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-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

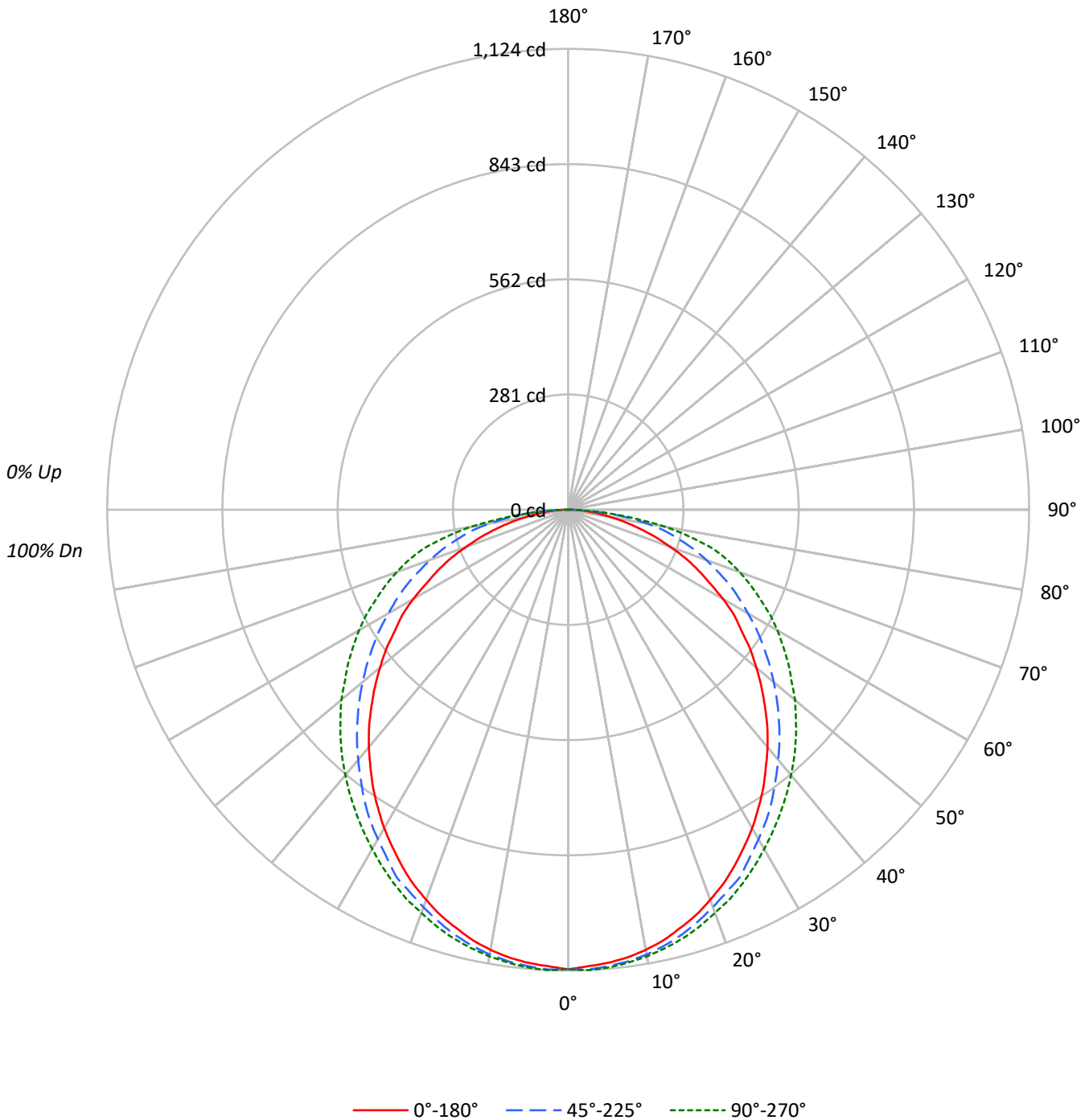
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3017	3017	3017
5°	2998	3019	3028
10°	2979	3010	3023
15°	2942	2988	3015
20°	2899	2955	2997
25°	2847	2938	2987
30°	2788	2884	2969
35°	2723	2846	2963
40°	2656	2798	2969
45°	2581	2766	2988
50°	2506	2737	3022
55°	2420	2725	3075
60°	2349	2724	3169
65°	2231	2769	3285
70°	2080	2821	3497
75°	1906	2918	3778
80°	1660	3042	3721
85°	1451	2705	2955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.2
10°-20°	302.0	9.2
20°-30°	453.3	13.7
30°-40°	541.7	16.4
40°-50°	563.3	17.1
50°-60°	522.1	15.8
60°-70°	428.2	13.0
70°-80°	289.5	8.8
80°-90°	91.0	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°	861.3	26.1
0°-40°	1403.0	42.6
0°-60°	2488.3	75.5
0°-90°	3297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1110	1111	1118	1119	1121	105
15°	1056	1061	1072	1079	1082	298
25°	959	967	990	1001	1006	442
35°	829	840	866	892	902	518
45°	678	691	727	769	785	524
55°	516	532	581	633	655	464
65°	350	370	435	492	516	346
75°	183	214	281	337	363	194
85°	47	65	88	97	96	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.0	1121.0	1121.0	1121.0	1121.0
2.5°	1114.6	1117.8	1122.7	1124.3	1124.3
5°	1109.7	1111.3	1117.8	1119.4	1121.0
7.5°	1101.6	1104.8	1111.3	1112.9	1114.6
10°	1090.2	1093.5	1101.6	1104.8	1106.4
12.5°	1075.6	1078.9	1088.6	1093.5	1095.1
15°	1056.1	1061.0	1072.4	1078.9	1082.1
17.5°	1036.7	1041.5	1052.9	1062.6	1065.9
20°	1012.3	1023.7	1031.8	1044.8	1046.4
22.5°	988.0	994.5	1009.1	1022.1	1028.6
25°	958.8	966.9	989.6	1001.0	1005.9
27.5°	928.0	939.3	957.2	975.0	981.5
30°	897.2	905.3	928.0	949.1	955.6
32.5°	863.1	874.4	898.8	919.9	929.6
35°	829.0	840.4	866.3	892.3	902.0
37.5°	791.7	804.7	830.6	861.5	874.4
40°	756.0	765.7	796.6	833.9	845.2
42.5°	718.7	730.1	762.5	803.1	816.0
45°	678.1	691.1	726.8	769.0	785.2
47.5°	639.2	652.2	691.1	733.3	752.8
50°	598.6	614.9	653.8	702.5	721.9
52.5°	559.7	574.3	618.1	668.4	686.3
55°	515.9	532.1	580.8	632.7	655.4
57.5°	480.2	491.6	545.1	598.6	621.4
60°	436.4	451.0	506.2	563.0	588.9
62.5°	389.4	413.7	470.5	528.9	554.8
65°	350.4	369.9	434.8	491.6	515.9
67.5°	309.9	331.0	394.2	454.3	481.8
70°	264.4	292.0	358.5	418.6	444.5
72.5°	223.9	253.1	321.2	379.6	407.2
75°	183.3	214.1	280.7	337.4	363.4
77.5°	144.4	178.5	243.4	287.2	303.4
80°	107.1	139.5	196.3	227.1	240.1
82.5°	74.6	102.2	144.4	160.6	163.9
85°	47.0	64.9	87.6	97.3	95.7
87.5°	21.1	26.0	32.4	35.7	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)