

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: P277245

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277245
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-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3330.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

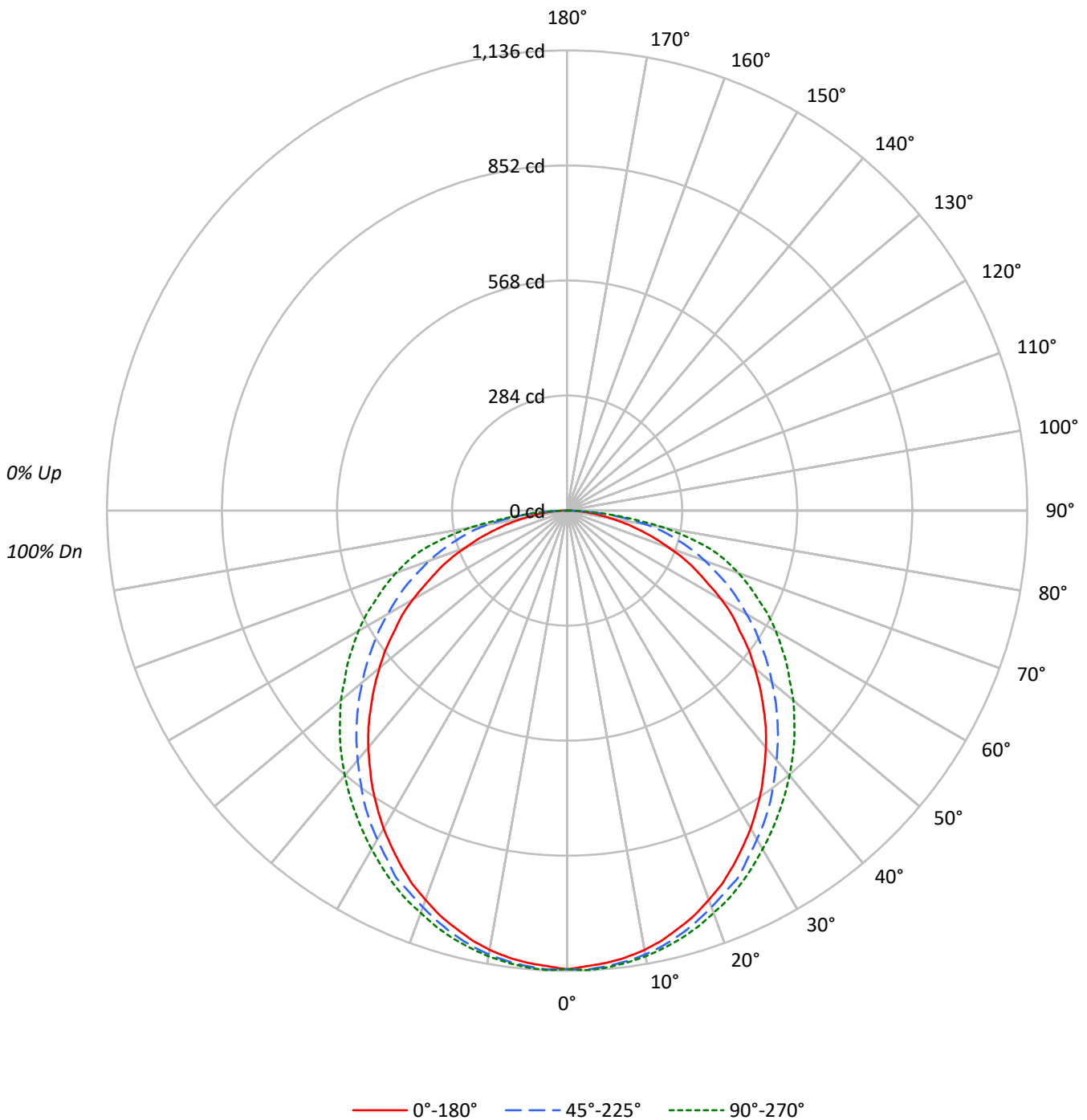
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3047	3047	3047
5°	3028	3050	3059
10°	3009	3040	3054
15°	2972	3017	3045
20°	2928	2984	3027
25°	2875	2968	3016
30°	2816	2912	2999
35°	2751	2874	2993
40°	2682	2826	2999
45°	2606	2794	3018
50°	2531	2764	3053
55°	2445	2752	3106
60°	2372	2751	3201
65°	2253	2796	3318
70°	2102	2849	3533
75°	1926	2948	3816
80°	1675	3073	3758
85°	1467	2732	2986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.2
10°-20°	305.0	9.2
20°-30°	457.9	13.7
30°-40°	547.1	16.4
40°-50°	568.9	17.1
50°-60°	527.3	15.8
60°-70°	432.5	13.0
70°-80°	292.4	8.8
80°-90°	91.9	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°	869.9	26.1
0°-40°	1417.0	42.6
0°-60°	2513.2	75.5
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1121	1122	1129	1131	1132	106
15°	1067	1072	1083	1090	1093	301
25°	968	977	1000	1011	1016	446
35°	837	849	875	901	911	523
45°	685	698	734	777	793	529
55°	521	538	587	639	662	468
65°	354	374	439	496	521	350
75°	185	216	284	341	367	196
85°	48	66	88	98	97	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.3	1132.3	1132.3	1132.3	1132.3
2.5°	1125.7	1129.0	1133.9	1135.5	1135.5
5°	1120.8	1122.4	1129.0	1130.6	1132.3
7.5°	1112.6	1115.9	1122.4	1124.1	1125.7
10°	1101.1	1104.4	1112.6	1115.9	1117.5
12.5°	1086.4	1089.7	1099.5	1104.4	1106.0
15°	1066.7	1071.6	1083.1	1089.7	1092.9
17.5°	1047.1	1052.0	1063.4	1073.3	1076.5
20°	1022.5	1033.9	1042.1	1055.2	1056.9
22.5°	997.9	1004.5	1019.2	1032.3	1038.9
25°	968.4	976.6	999.5	1011.0	1015.9
27.5°	937.3	948.7	966.8	984.8	991.3
30°	906.1	914.3	937.3	958.6	965.1
32.5°	871.7	883.2	907.8	929.1	938.9
35°	837.3	848.8	875.0	901.2	911.1
37.5°	799.6	812.7	839.0	870.1	883.2
40°	763.6	773.4	804.5	842.2	853.7
42.5°	725.9	737.4	770.1	811.1	824.2
45°	684.9	698.0	734.1	776.7	793.1
47.5°	645.6	658.7	698.0	740.6	760.3
50°	604.6	621.0	660.3	709.5	729.2
52.5°	565.3	580.1	624.3	675.1	693.1
55°	521.1	537.5	586.6	639.0	662.0
57.5°	485.0	496.5	550.6	604.6	627.6
60°	440.8	455.5	511.2	568.6	594.8
62.5°	393.3	417.8	475.2	534.2	560.4
65°	353.9	373.6	439.1	496.5	521.1
67.5°	313.0	334.3	398.2	458.8	486.7
70°	267.1	294.9	362.1	422.8	449.0
72.5°	226.1	255.6	324.4	383.4	411.3
75°	185.2	216.3	283.5	340.8	367.0
77.5°	145.8	180.2	245.8	290.0	306.4
80°	108.1	140.9	198.3	229.4	242.5
82.5°	75.4	103.2	145.8	162.2	165.5
85°	47.5	65.5	88.5	98.3	96.7
87.5°	21.3	26.2	32.8	36.0	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)