

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: P277256

Luminaire Tested: **22CZ2-39HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277256
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: 22CZ2-39HE-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3836.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

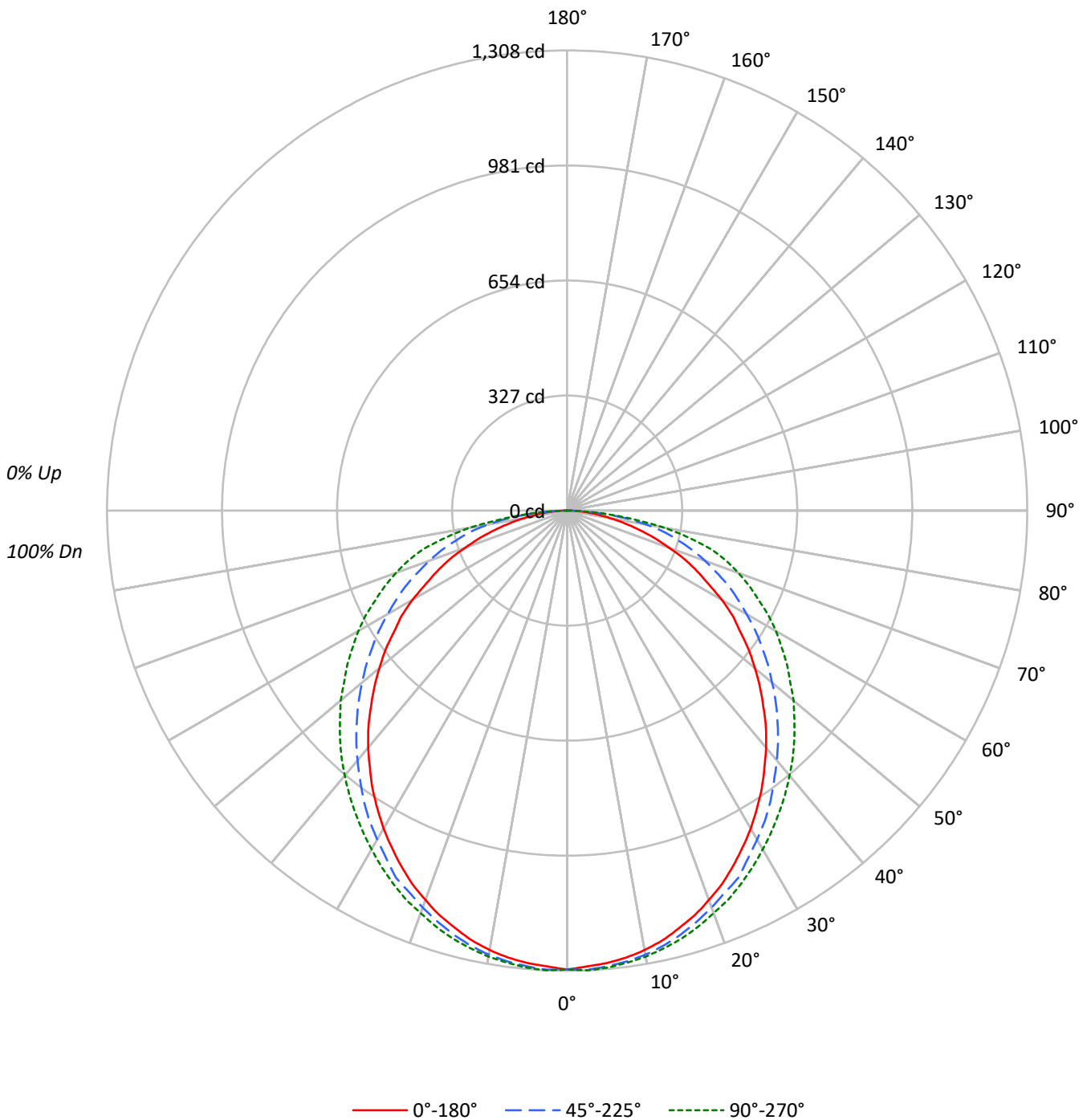
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3510	3510	3510
5°	3488	3513	3523
10°	3466	3502	3518
15°	3423	3476	3507
20°	3373	3438	3487
25°	3312	3419	3475
30°	3243	3355	3455
35°	3168	3311	3448
40°	3090	3256	3455
45°	3003	3218	3477
50°	2916	3185	3517
55°	2816	3170	3578
60°	2733	3169	3688
65°	2596	3221	3822
70°	2421	3282	4069
75°	2218	3395	4396
80°	1931	3539	4330
85°	1689	3146	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.2
10°-20°	351.3	9.2
20°-30°	527.4	13.7
30°-40°	630.2	16.4
40°-50°	655.4	17.1
50°-60°	607.4	15.8
60°-70°	498.2	13.0
70°-80°	336.8	8.8
80°-90°	105.8	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°	1002.1	26.1
0°-40°	1632.4	42.6
0°-60°	2895.1	75.5
0°-90°	3836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1291	1293	1300	1302	1304	123
15°	1229	1234	1248	1255	1259	347
25°	1116	1125	1151	1165	1170	514
35°	964	978	1008	1038	1050	603
45°	789	804	846	895	914	609
55°	600	619	676	736	763	539
65°	408	430	506	572	600	403
75°	213	249	326	393	423	226
85°	55	76	102	113	111	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1296.8	1300.5	1306.2	1308.1	1308.1
5°	1291.1	1293.0	1300.5	1302.4	1304.3
7.5°	1281.7	1285.4	1293.0	1294.9	1296.8
10°	1268.4	1272.2	1281.7	1285.4	1287.3
12.5°	1251.5	1255.2	1266.6	1272.2	1274.1
15°	1228.8	1234.5	1247.7	1255.2	1259.0
17.5°	1206.2	1211.8	1225.0	1236.4	1240.1
20°	1177.8	1191.1	1200.5	1215.6	1217.5
22.5°	1149.5	1157.1	1174.1	1189.2	1196.7
25°	1115.6	1125.0	1151.4	1164.6	1170.3
27.5°	1079.7	1092.9	1113.7	1134.4	1142.0
30°	1043.8	1053.3	1079.7	1104.2	1111.8
32.5°	1004.2	1017.4	1045.7	1070.3	1081.6
35°	964.5	977.8	1008.0	1038.2	1049.5
37.5°	921.1	936.2	966.4	1002.3	1017.4
40°	879.6	890.9	926.8	970.2	983.4
42.5°	836.2	849.4	887.2	934.3	949.4
45°	789.0	804.1	845.6	894.7	913.6
47.5°	743.7	758.8	804.1	853.2	875.8
50°	696.5	715.4	760.7	817.3	840.0
52.5°	651.2	668.2	719.2	777.7	798.4
55°	600.2	619.1	675.7	736.2	762.6
57.5°	558.7	571.9	634.2	696.5	722.9
60°	507.8	524.7	588.9	655.0	685.2
62.5°	453.0	481.3	547.4	615.3	645.5
65°	407.7	430.4	505.9	571.9	600.2
67.5°	360.5	385.1	458.7	528.5	560.6
70°	307.7	339.8	417.2	487.0	517.2
72.5°	260.5	294.5	373.7	441.7	473.8
75°	213.3	249.2	326.5	392.6	422.8
77.5°	168.0	207.6	283.1	334.1	353.0
80°	124.6	162.3	228.4	264.3	279.4
82.5°	86.8	118.9	168.0	186.9	190.6
85°	54.7	75.5	101.9	113.3	111.4
87.5°	24.5	30.2	37.8	41.5	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)