

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: P275653

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3670.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

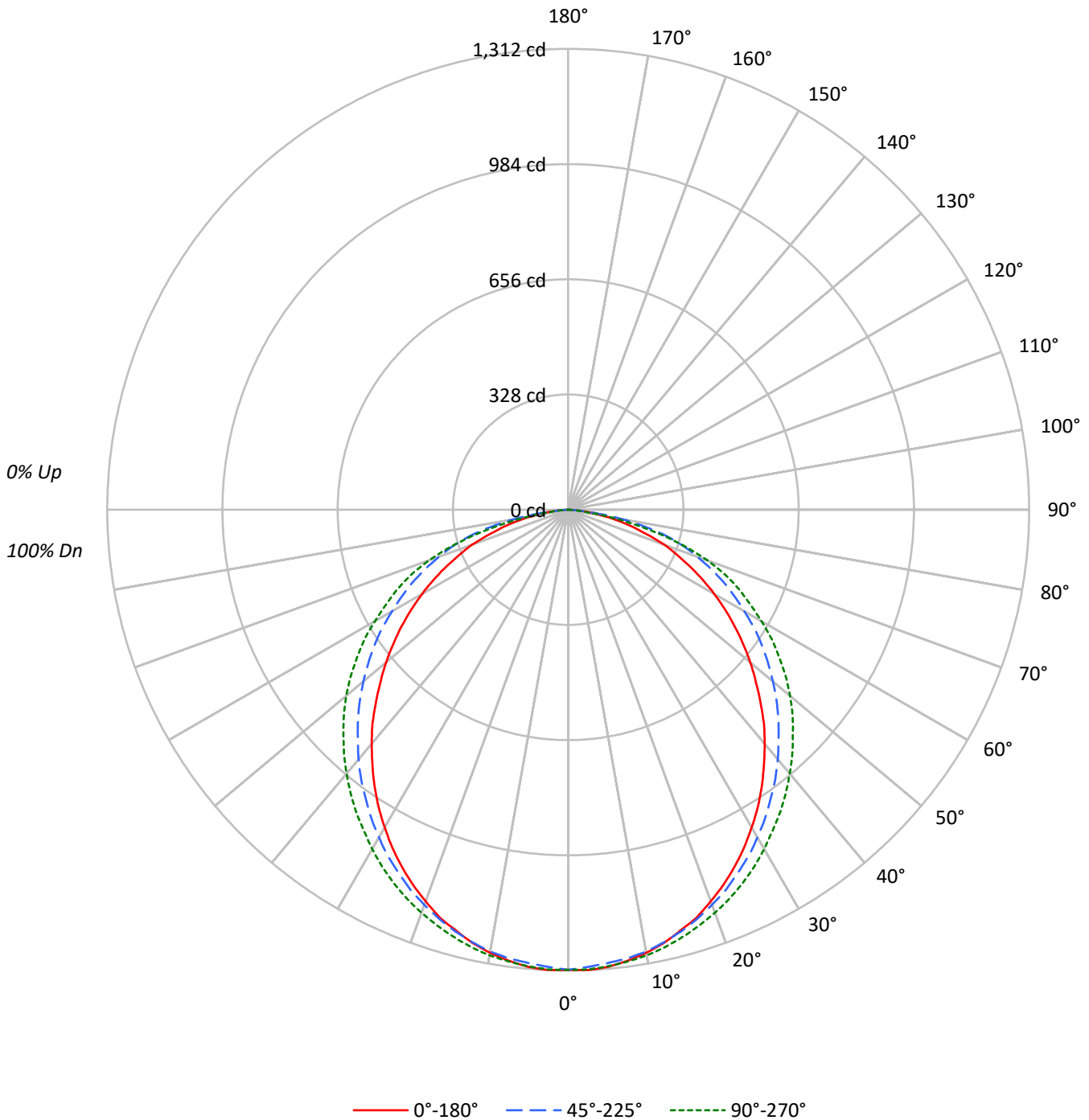
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																												
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																												
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																												
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																												
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																												
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																												
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																												
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	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	52	39	31	26	38	31	26	37	31	26	36	30	26	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3525	3525	3525
5°	3529	3500	3524
10°	3500	3490	3520
15°	3452	3462	3508
20°	3397	3429	3497
25°	3328	3388	3485
30°	3246	3347	3466
35°	3156	3300	3455
40°	3055	3260	3445
45°	2943	3220	3442
50°	2834	3184	3451
55°	2715	3159	3440
60°	2585	3114	3418
65°	2433	3105	3418
70°	2290	3078	3322
75°	1987	3008	2837
80°	1607	2425	1889
85°	1068	843	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.4
10°-20°	352.0	9.6
20°-30°	528.1	14.4
30°-40°	629.9	17.2
40°-50°	651.2	17.7
50°-60°	594.6	16.2
60°-70°	467.9	12.7
70°-80°	272.4	7.4
80°-90°	50.2	1.4
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°	1003.8	27.4
0°-40°	1633.8	44.5
0°-60°	2879.6	78.5
0°-90°	3670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1306	1303	1296	1306	1305	124
15°	1239	1241	1243	1259	1259	350
25°	1121	1126	1141	1168	1174	516
35°	961	974	1004	1043	1052	601
45°	773	799	846	893	904	597
55°	579	610	673	722	733	517
65°	382	422	488	526	537	379
75°	191	237	289	284	273	203
85°	35	49	27	22	18	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1311.9	1308.3	1302.9	1311.9	1310.1
5°	1306.5	1302.9	1295.6	1306.5	1304.7
7.5°	1295.6	1291.9	1288.3	1299.2	1297.4
10°	1281.0	1279.2	1277.4	1290.1	1288.3
12.5°	1262.8	1262.8	1261.0	1275.6	1275.6
15°	1239.2	1241.0	1242.8	1259.2	1259.2
17.5°	1217.3	1215.5	1221.0	1239.2	1241.0
20°	1186.4	1190.0	1197.3	1219.1	1221.0
22.5°	1155.5	1159.1	1171.8	1193.7	1199.1
25°	1120.9	1126.3	1140.9	1168.2	1173.7
27.5°	1084.5	1091.8	1111.8	1140.9	1146.4
30°	1044.5	1055.4	1077.2	1110.0	1115.4
32.5°	1004.4	1015.4	1042.6	1075.4	1082.7
35°	960.8	973.5	1004.4	1042.6	1051.7
37.5°	915.3	931.6	968.0	1006.3	1017.2
40°	869.8	888.0	928.0	968.0	980.8
42.5°	824.3	842.5	886.2	931.6	944.4
45°	773.3	798.8	846.1	893.4	904.4
47.5°	724.2	751.5	804.3	851.6	866.1
50°	676.9	704.2	760.6	809.7	824.3
52.5°	627.8	656.9	716.9	767.9	780.6
55°	578.6	609.6	673.3	722.4	733.3
57.5°	529.5	562.3	627.8	675.1	687.8
60°	480.4	515.0	578.6	626.0	635.0
62.5°	431.3	467.6	533.1	575.0	584.1
65°	382.1	422.2	487.7	525.9	536.8
67.5°	334.8	374.8	438.5	474.9	484.0
70°	291.1	327.5	391.2	418.5	422.2
72.5°	236.6	282.0	343.9	358.5	349.4
75°	191.1	236.6	289.3	283.9	272.9
77.5°	145.6	191.1	225.6	207.4	192.9
80°	103.7	149.2	156.5	129.2	121.9
82.5°	67.3	103.7	87.3	67.3	54.6
85°	34.6	49.1	27.3	21.8	18.2
87.5°	10.9	7.3	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)