

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: P275713

Luminaire Tested: **14CZ2-39-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275713
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3665.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

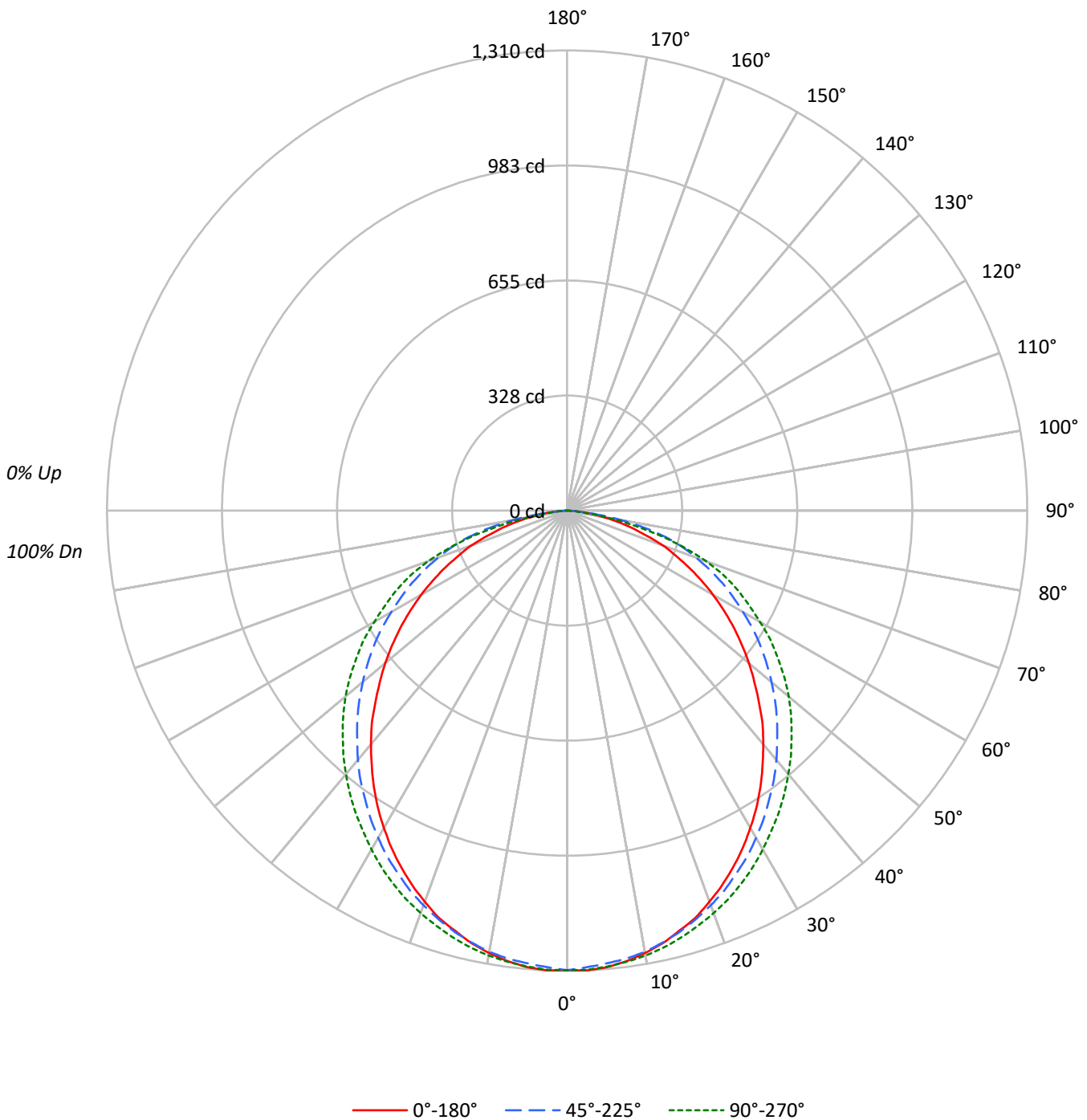
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3521	3521	3521
5°	3524	3495	3519
10°	3496	3486	3515
15°	3448	3458	3503
20°	3393	3424	3492
25°	3324	3383	3480
30°	3241	3342	3461
35°	3152	3295	3450
40°	3051	3255	3440
45°	2939	3216	3437
50°	2830	3180	3446
55°	2711	3154	3436
60°	2582	3110	3413
65°	2430	3101	3414
70°	2287	3074	3317
75°	1984	3004	2834
80°	1605	2422	1886
85°	1065	843	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.4
10°-20°	351.6	9.6
20°-30°	527.3	14.4
30°-40°	629.1	17.2
40°-50°	650.3	17.7
50°-60°	593.8	16.2
60°-70°	467.3	12.7
70°-80°	272.0	7.4
80°-90°	50.1	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°	1002.5	27.4
0°-40°	1631.5	44.5
0°-60°	2875.6	78.5
0°-90°	3665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1305	1301	1294	1305	1303	124
15°	1238	1239	1241	1258	1258	349
25°	1119	1125	1139	1167	1172	515
35°	960	972	1003	1041	1050	600
45°	772	798	845	892	903	596
55°	578	609	672	721	732	517
65°	382	422	487	525	536	379
75°	191	236	289	284	273	203
85°	34	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°	1308.3	1308.3	1308.3	1308.3	1308.3
2.5°	1310.2	1306.5	1301.1	1310.2	1308.3
5°	1304.7	1301.1	1293.8	1304.7	1302.9
7.5°	1293.8	1290.2	1286.5	1297.4	1295.6
10°	1279.3	1277.5	1275.6	1288.4	1286.5
12.5°	1261.1	1261.1	1259.3	1273.8	1273.8
15°	1237.5	1239.3	1241.1	1257.5	1257.5
17.5°	1215.7	1213.9	1219.3	1237.5	1239.3
20°	1184.8	1188.4	1195.7	1217.5	1219.3
22.5°	1153.9	1157.5	1170.2	1192.0	1197.5
25°	1119.4	1124.8	1139.3	1166.6	1172.1
27.5°	1083.0	1090.3	1110.3	1139.3	1144.8
30°	1043.0	1053.9	1075.7	1108.5	1113.9
32.5°	1003.1	1014.0	1041.2	1073.9	1081.2
35°	959.5	972.2	1003.1	1041.2	1050.3
37.5°	914.0	930.4	966.7	1004.9	1015.8
40°	868.6	886.8	926.7	966.7	979.4
42.5°	823.2	841.3	884.9	930.4	943.1
45°	772.3	797.7	845.0	892.2	903.1
47.5°	723.2	750.5	803.2	850.4	865.0
50°	676.0	703.2	759.6	808.6	823.2
52.5°	626.9	656.0	716.0	766.8	779.6
55°	577.9	608.7	672.3	721.4	732.3
57.5°	528.8	561.5	626.9	674.2	686.9
60°	479.7	514.3	577.9	625.1	634.2
62.5°	430.7	467.0	532.4	574.2	583.3
65°	381.6	421.6	487.0	525.2	536.1
67.5°	334.4	374.3	437.9	474.3	483.4
70°	290.7	327.1	390.7	417.9	421.6
72.5°	236.2	281.7	343.4	358.0	348.9
75°	190.8	236.2	288.9	283.5	272.6
77.5°	145.4	190.8	225.3	207.2	192.6
80°	103.6	149.0	156.3	129.0	121.7
82.5°	67.2	103.6	87.2	67.2	54.5
85°	34.5	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)