

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: P275655

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275655
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3880.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

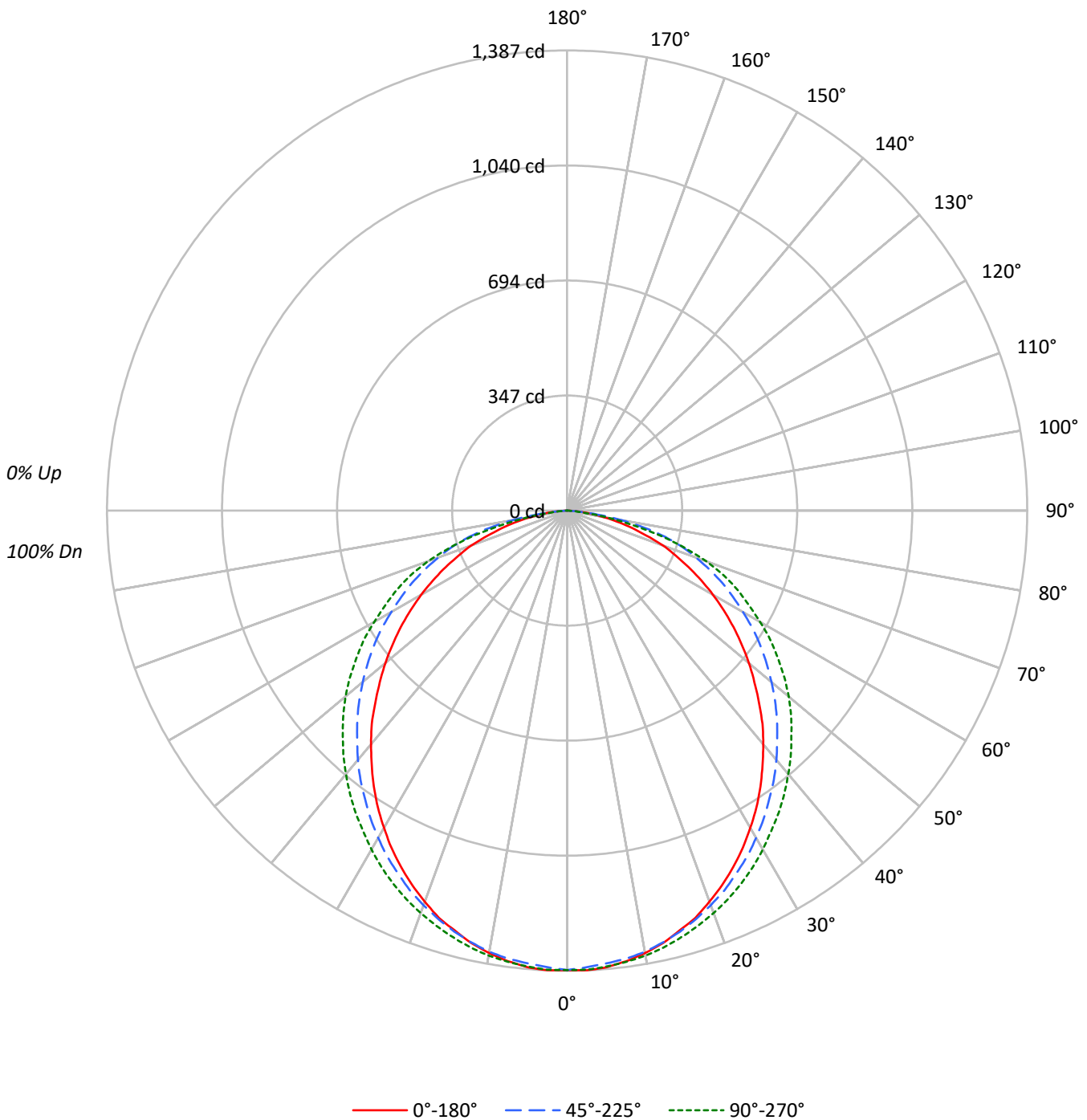
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275655

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275655

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-4000K

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3727	3727	3727
5°	3731	3700	3726
10°	3701	3690	3722
15°	3650	3660	3709
20°	3592	3625	3696
25°	3518	3581	3684
30°	3431	3539	3664
35°	3337	3488	3653
40°	3230	3446	3642
45°	3111	3404	3639
50°	2996	3366	3648
55°	2870	3339	3637
60°	2733	3293	3613
65°	2572	3283	3613
70°	2422	3254	3511
75°	2100	3180	3001
80°	1700	2563	1998
85°	1130	892	593



TEST NUMBER: P275655

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.4
10°-20°	372.2	9.6
20°-30°	558.3	14.4
30°-40°	666.0	17.2
40°-50°	688.5	17.7
50°-60°	628.6	16.2
60°-70°	494.7	12.7
70°-80°	288.0	7.4
80°-90°	53.0	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°	1061.3	27.4
0°-40°	1727.2	44.5
0°-60°	3044.3	78.5
0°-90°	3880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1381	1377	1370	1381	1379	131
15°	1310	1312	1314	1331	1331	370
25°	1185	1191	1206	1235	1241	546
35°	1016	1029	1062	1102	1112	635
45°	818	844	894	945	956	631
55°	612	644	712	764	775	547
65°	404	446	516	556	568	401
75°	202	250	306	300	289	215
85°	37	52	29	23	19	47
90°	0	0	0	0	0	



TEST NUMBER: P275655

CATALOG NUMBER: 14CZ2-39-S-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.1	1385.1	1385.1	1385.1	1385.1
2.5°	1387.0	1383.2	1377.4	1387.0	1385.1
5°	1381.2	1377.4	1369.7	1381.2	1379.3
7.5°	1369.7	1365.9	1362.0	1373.6	1371.6
10°	1354.3	1352.4	1350.5	1363.9	1362.0
12.5°	1335.1	1335.1	1333.2	1348.5	1348.5
15°	1310.1	1312.0	1313.9	1331.2	1331.2
17.5°	1287.0	1285.1	1290.8	1310.1	1312.0
20°	1254.3	1258.1	1265.8	1288.9	1290.8
22.5°	1221.6	1225.4	1238.9	1262.0	1267.7
25°	1185.0	1190.8	1206.2	1235.0	1240.8
27.5°	1146.6	1154.2	1175.4	1206.2	1212.0
30°	1104.2	1115.8	1138.9	1173.5	1179.3
32.5°	1061.9	1073.4	1102.3	1136.9	1144.6
35°	1015.7	1029.2	1061.9	1102.3	1111.9
37.5°	967.6	985.0	1023.4	1063.8	1075.4
40°	919.5	938.8	981.1	1023.4	1036.9
42.5°	871.5	890.7	936.9	985.0	998.4
45°	817.6	844.5	894.5	944.6	956.1
47.5°	765.7	794.5	850.3	900.3	915.7
50°	715.6	744.5	804.1	856.1	871.5
52.5°	663.7	694.5	758.0	811.8	825.3
55°	611.8	644.5	711.8	763.7	775.3
57.5°	559.8	594.4	663.7	713.7	727.2
60°	507.9	544.4	611.8	661.8	671.4
62.5°	455.9	494.4	563.7	607.9	617.5
65°	404.0	446.3	515.6	556.0	567.5
67.5°	354.0	396.3	463.6	502.1	511.7
70°	307.8	346.3	413.6	442.5	446.3
72.5°	250.1	298.2	363.6	379.0	369.4
75°	202.0	250.1	305.9	300.1	288.6
77.5°	153.9	202.0	238.5	219.3	203.9
80°	109.7	157.7	165.4	136.6	128.9
82.5°	71.2	109.7	92.3	71.2	57.7
85°	36.6	51.9	28.9	23.1	19.2
87.5°	11.5	7.7	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)