

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: P275485

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3631.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

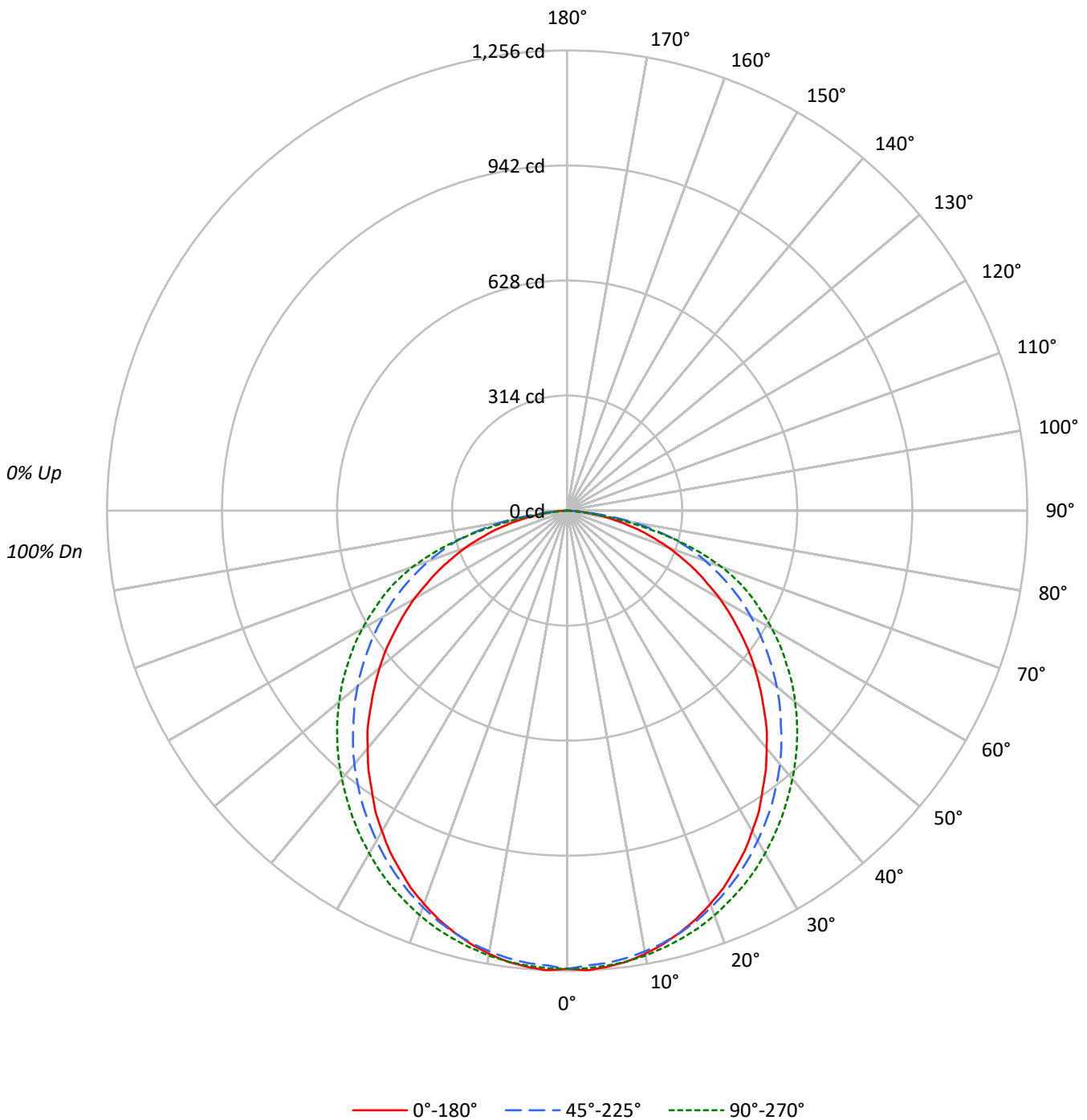
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275485

CATALOG NUMBER: 14CZ2-39-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P275485

CATALOG NUMBER: 14CZ2-39-UNV-L82765-W2A1-U-3000K

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3366	3366	3366
5°	3377	3348	3368
10°	3356	3338	3369
15°	3320	3322	3368
20°	3271	3299	3367
25°	3209	3267	3363
30°	3140	3233	3356
35°	3056	3205	3354
40°	2975	3174	3359
45°	2884	3140	3377
50°	2800	3125	3400
55°	2693	3115	3430
60°	2597	3120	3477
65°	2464	3130	3531
70°	2312	3153	3529
75°	2096	3182	3191
80°	1719	2748	2270
85°	1275	1300	525



TEST NUMBER: P275485

CATALOG NUMBER: 14CZ2-39-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.3
10°-20°	338.1	9.3
20°-30°	509.4	14.0
30°-40°	611.2	16.8
40°-50°	637.1	17.5
50°-60°	589.8	16.2
60°-70°	476.5	13.1
70°-80°	290.5	8.0
80°-90°	60.0	1.7
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°	965.8	26.6
0°-40°	1577.1	43.4
0°-60°	2803.9	77.2
0°-90°	3631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1250	1247	1240	1248	1247	119
15°	1192	1193	1193	1209	1209	336
25°	1081	1087	1100	1128	1133	498
35°	930	945	976	1011	1021	583
45°	758	780	825	871	887	586
55°	574	604	664	716	731	514
65°	387	425	492	541	555	383
75°	202	246	306	311	307	212
85°	41	62	42	24	17	51
90°	0	0	0	0	0	



TEST NUMBER: P275485

CATALOG NUMBER: 14CZ2-39-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.9	1250.9	1250.9	1250.9	1250.9
2.5°	1255.7	1251.7	1242.8	1251.7	1250.1
5°	1250.1	1246.8	1239.6	1248.5	1246.8
7.5°	1242.0	1238.7	1232.3	1242.8	1241.2
10°	1228.2	1226.6	1221.7	1233.9	1233.1
12.5°	1212.0	1211.2	1208.8	1222.6	1221.7
15°	1191.8	1192.6	1192.6	1208.8	1208.8
17.5°	1169.1	1170.7	1174.0	1191.8	1194.2
20°	1142.4	1145.6	1152.1	1172.4	1175.6
22.5°	1114.9	1117.3	1127.0	1151.3	1154.5
25°	1080.9	1087.3	1100.3	1127.8	1132.7
27.5°	1048.5	1054.1	1072.0	1100.3	1108.4
30°	1010.4	1019.3	1040.4	1071.2	1080.1
32.5°	974.0	983.7	1008.0	1043.6	1051.7
35°	930.3	944.8	975.6	1011.2	1021.0
37.5°	890.6	904.4	939.2	978.0	989.4
40°	846.9	863.9	903.6	944.8	956.2
42.5°	806.4	822.6	865.5	907.6	923.0
45°	757.8	780.5	825.0	871.2	887.4
47.5°	713.3	736.0	787.0	836.4	850.9
50°	668.8	693.1	746.5	797.5	812.1
52.5°	622.6	648.5	706.0	757.0	774.0
55°	574.0	604.0	663.9	715.7	731.1
57.5°	527.9	558.7	622.6	675.2	690.6
60°	482.5	514.1	579.7	629.9	646.1
62.5°	432.3	469.6	537.6	587.0	599.1
65°	387.0	425.1	491.5	540.8	554.6
67.5°	339.2	380.5	446.9	492.3	505.2
70°	293.9	336.8	400.8	442.9	448.5
72.5°	245.3	289.0	353.8	380.5	380.5
75°	201.6	246.1	306.0	310.9	306.9
77.5°	153.8	203.2	242.1	232.4	222.7
80°	110.9	159.5	177.3	159.5	146.5
82.5°	74.5	115.8	106.9	85.0	75.3
85°	41.3	61.5	42.1	23.5	17.0
87.5°	15.4	13.8	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)