

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: P275486

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275486
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

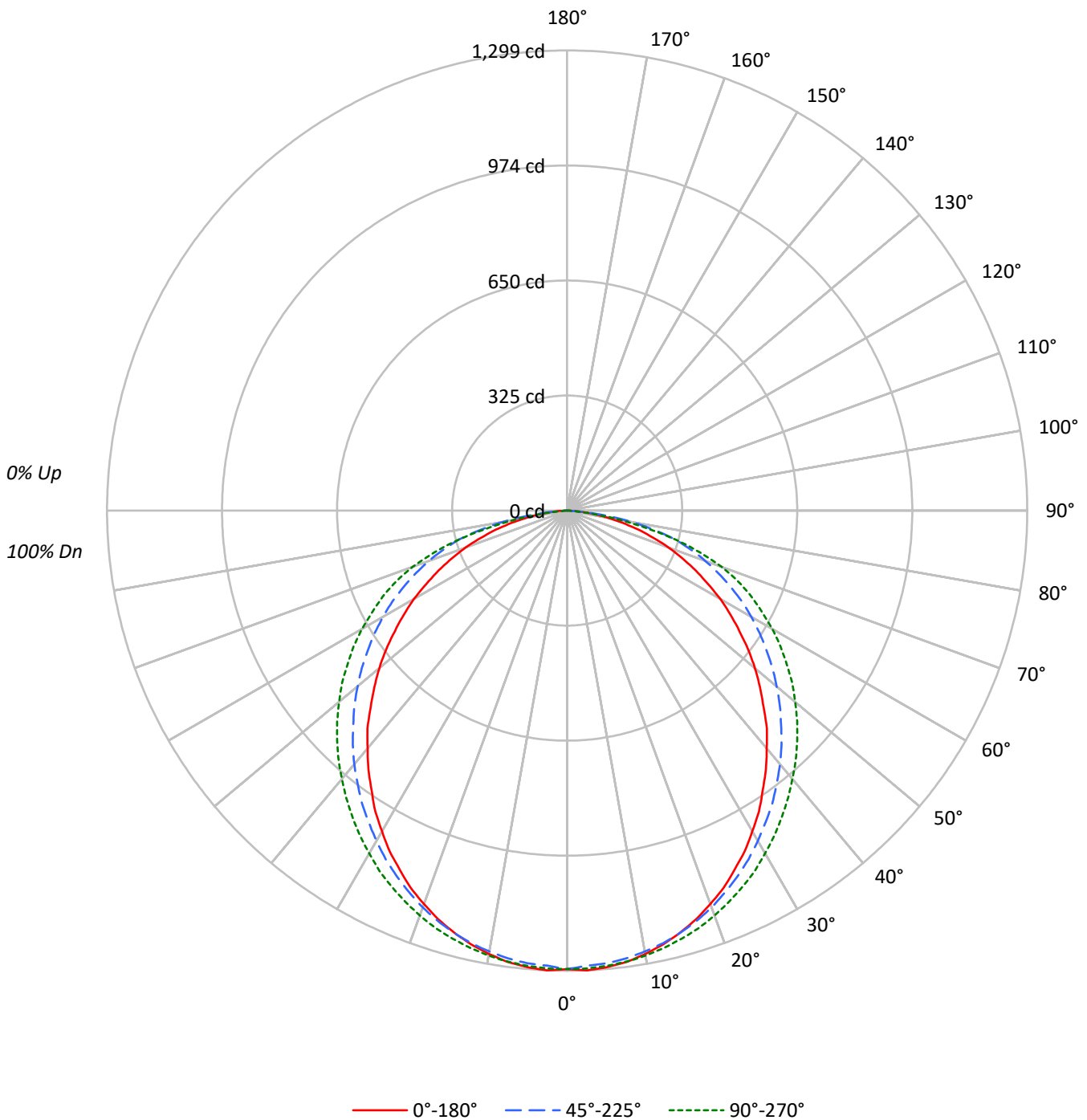
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3483	3483	3483
5°	3494	3465	3485
10°	3472	3454	3486
15°	3435	3438	3484
20°	3385	3414	3483
25°	3321	3380	3480
30°	3249	3345	3472
35°	3162	3316	3470
40°	3078	3284	3476
45°	2984	3249	3494
50°	2897	3234	3517
55°	2787	3223	3549
60°	2687	3228	3598
65°	2550	3238	3654
70°	2393	3263	3651
75°	2169	3293	3301
80°	1779	2844	2349
85°	1318	1346	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.3
10°-20°	349.9	9.3
20°-30°	527.0	14.0
30°-40°	632.4	16.8
40°-50°	659.2	17.5
50°-60°	610.2	16.2
60°-70°	493.1	13.1
70°-80°	300.6	8.0
80°-90°	62.1	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°	999.4	26.6
0°-40°	1631.8	43.4
0°-60°	2901.2	77.2
0°-90°	3757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1294	1290	1283	1292	1290	123
15°	1233	1234	1234	1251	1251	348
25°	1118	1125	1138	1167	1172	515
35°	963	978	1010	1046	1056	603
45°	784	808	854	901	918	606
55°	594	625	687	741	756	532
65°	400	440	508	560	574	396
75°	209	255	317	322	318	219
85°	43	64	44	24	18	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.3	1294.3	1294.3	1294.3	1294.3
2.5°	1299.3	1295.1	1285.9	1295.1	1293.5
5°	1293.5	1290.1	1282.6	1291.8	1290.1
7.5°	1285.1	1281.7	1275.0	1285.9	1284.2
10°	1270.8	1269.2	1264.1	1276.7	1275.9
12.5°	1254.1	1253.2	1250.7	1265.0	1264.1
15°	1233.1	1234.0	1234.0	1250.7	1250.7
17.5°	1209.7	1211.4	1214.7	1233.1	1235.7
20°	1182.0	1185.4	1192.1	1213.0	1216.4
22.5°	1153.6	1156.1	1166.1	1191.3	1194.6
25°	1118.4	1125.1	1138.5	1167.0	1172.0
27.5°	1084.9	1090.7	1109.2	1138.5	1146.9
30°	1045.5	1054.7	1076.5	1108.3	1117.5
32.5°	1007.8	1017.8	1043.0	1079.8	1088.2
35°	962.6	977.6	1009.5	1046.3	1056.4
37.5°	921.5	935.7	971.8	1012.0	1023.7
40°	876.3	893.9	934.9	977.6	989.4
42.5°	834.4	851.1	895.5	939.1	955.0
45°	784.1	807.6	853.7	901.4	918.2
47.5°	738.0	761.5	814.3	865.4	880.5
50°	692.0	717.1	772.4	825.2	840.2
52.5°	644.2	671.0	730.5	783.3	800.9
55°	594.0	624.9	686.9	740.6	756.5
57.5°	546.2	578.0	644.2	698.7	714.6
60°	499.3	532.0	599.8	651.8	668.5
62.5°	447.3	485.9	556.3	607.4	619.9
65°	400.4	439.8	508.5	559.6	573.8
67.5°	351.0	393.7	462.4	509.3	522.7
70°	304.1	348.5	414.7	458.2	464.1
72.5°	253.8	299.1	366.1	393.7	393.7
75°	208.6	254.7	316.7	321.7	317.5
77.5°	159.2	210.3	250.5	240.4	230.4
80°	114.8	165.0	183.5	165.0	151.6
82.5°	77.1	119.8	110.6	88.0	77.9
85°	42.7	63.7	43.6	24.3	17.6
87.5°	15.9	14.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)