

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: P275488

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275488
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3908.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

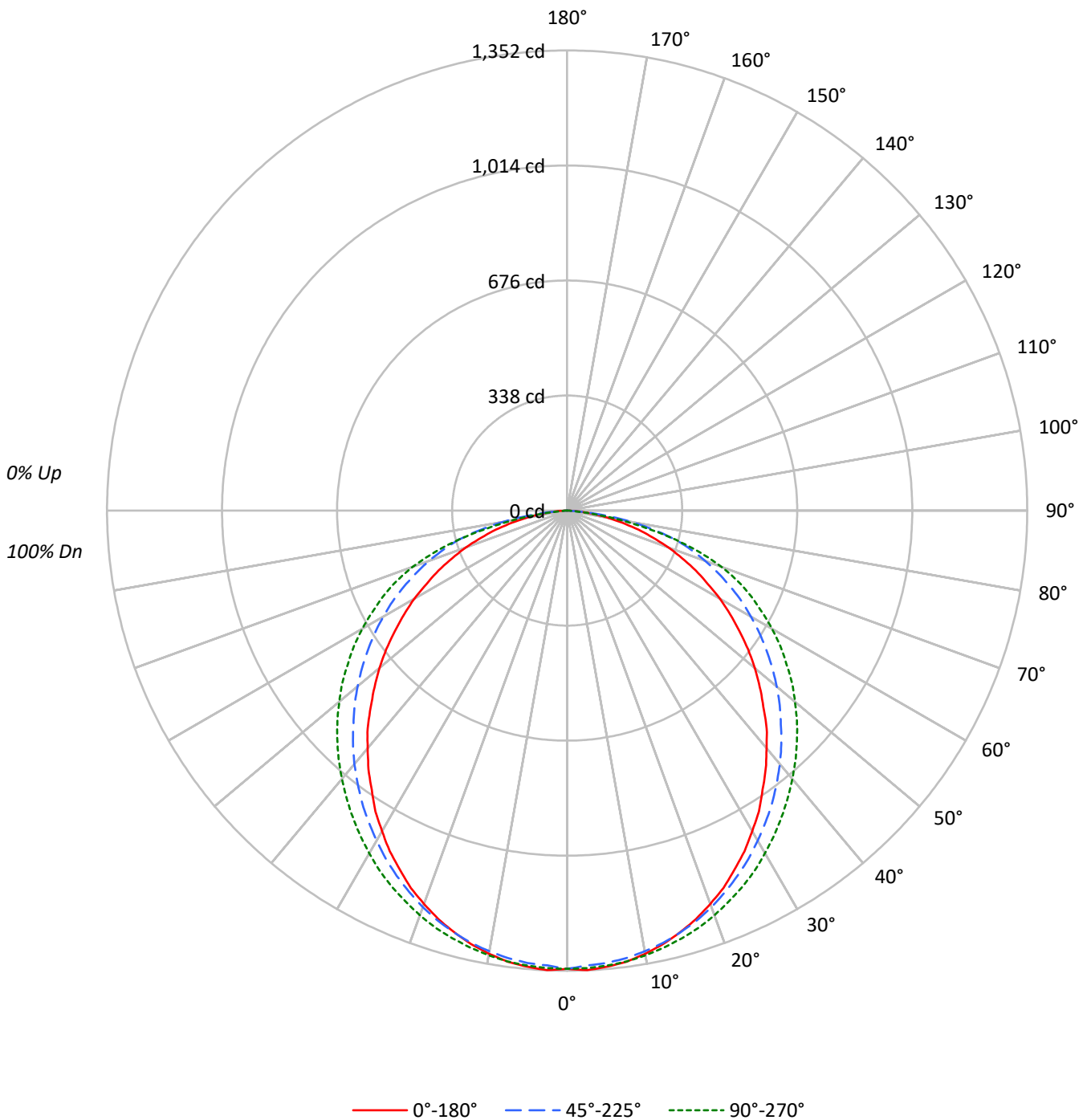
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3623	3623	3623
5°	3634	3604	3625
10°	3612	3593	3626
15°	3573	3576	3624
20°	3521	3551	3623
25°	3454	3516	3620
30°	3379	3480	3612
35°	3289	3449	3610
40°	3202	3416	3615
45°	3104	3379	3635
50°	3013	3363	3659
55°	2898	3353	3692
60°	2795	3358	3743
65°	2652	3368	3801
70°	2489	3393	3799
75°	2256	3425	3434
80°	1850	2957	2444
85°	1371	1399	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.3
10°-20°	363.9	9.3
20°-30°	548.2	14.0
30°-40°	657.9	16.8
40°-50°	685.7	17.5
50°-60°	634.8	16.2
60°-70°	512.9	13.1
70°-80°	312.7	8.0
80°-90°	64.6	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°	1039.5	26.6
0°-40°	1697.4	43.4
0°-60°	3017.8	77.2
0°-90°	3908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1345	1342	1334	1344	1342	128
15°	1283	1284	1284	1301	1301	362
25°	1163	1170	1184	1214	1219	536
35°	1001	1017	1050	1088	1099	627
45°	816	840	888	938	955	630
55°	618	650	715	770	787	554
65°	416	458	529	582	597	412
75°	217	265	329	335	330	228
85°	44	66	45	25	18	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.3	1346.3	1346.3	1346.3	1346.3
2.5°	1351.5	1347.2	1337.6	1347.2	1345.4
5°	1345.4	1342.0	1334.1	1343.7	1342.0
7.5°	1336.7	1333.2	1326.3	1337.6	1335.9
10°	1321.9	1320.2	1314.9	1328.0	1327.1
12.5°	1304.5	1303.6	1301.0	1315.8	1314.9
15°	1282.7	1283.6	1283.6	1301.0	1301.0
17.5°	1258.3	1260.0	1263.5	1282.7	1285.3
20°	1229.6	1233.0	1240.0	1261.8	1265.3
22.5°	1199.9	1202.5	1213.0	1239.1	1242.6
25°	1163.3	1170.3	1184.2	1213.9	1219.1
27.5°	1128.5	1134.6	1153.7	1184.2	1193.0
30°	1087.5	1097.1	1119.8	1152.9	1162.5
32.5°	1048.3	1058.8	1084.9	1123.2	1132.0
35°	1001.2	1016.9	1050.0	1088.4	1098.8
37.5°	958.5	973.4	1010.8	1052.7	1064.9
40°	911.5	929.8	972.5	1016.9	1029.1
42.5°	867.9	885.3	931.5	976.8	993.4
45°	815.6	840.0	888.0	937.6	955.1
47.5°	767.7	792.1	847.0	900.2	915.8
50°	719.8	745.9	803.4	858.3	874.0
52.5°	670.1	698.0	759.9	814.8	833.1
55°	617.8	650.1	714.6	770.3	786.9
57.5°	568.2	601.3	670.1	726.8	743.3
60°	519.4	553.3	623.9	678.0	695.4
62.5°	465.3	505.4	578.6	631.8	644.8
65°	416.5	457.5	528.9	582.1	596.9
67.5°	365.1	409.6	481.0	529.8	543.8
70°	316.3	362.5	431.3	476.7	482.8
72.5°	264.0	311.1	380.8	409.6	409.6
75°	217.0	264.9	329.4	334.6	330.3
77.5°	165.6	218.7	260.5	250.1	239.6
80°	119.4	171.7	190.8	171.7	157.7
82.5°	80.2	124.6	115.0	91.5	81.0
85°	44.4	66.2	45.3	25.3	18.3
87.5°	16.6	14.8	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)