

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: P275484

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275484
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-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3530.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

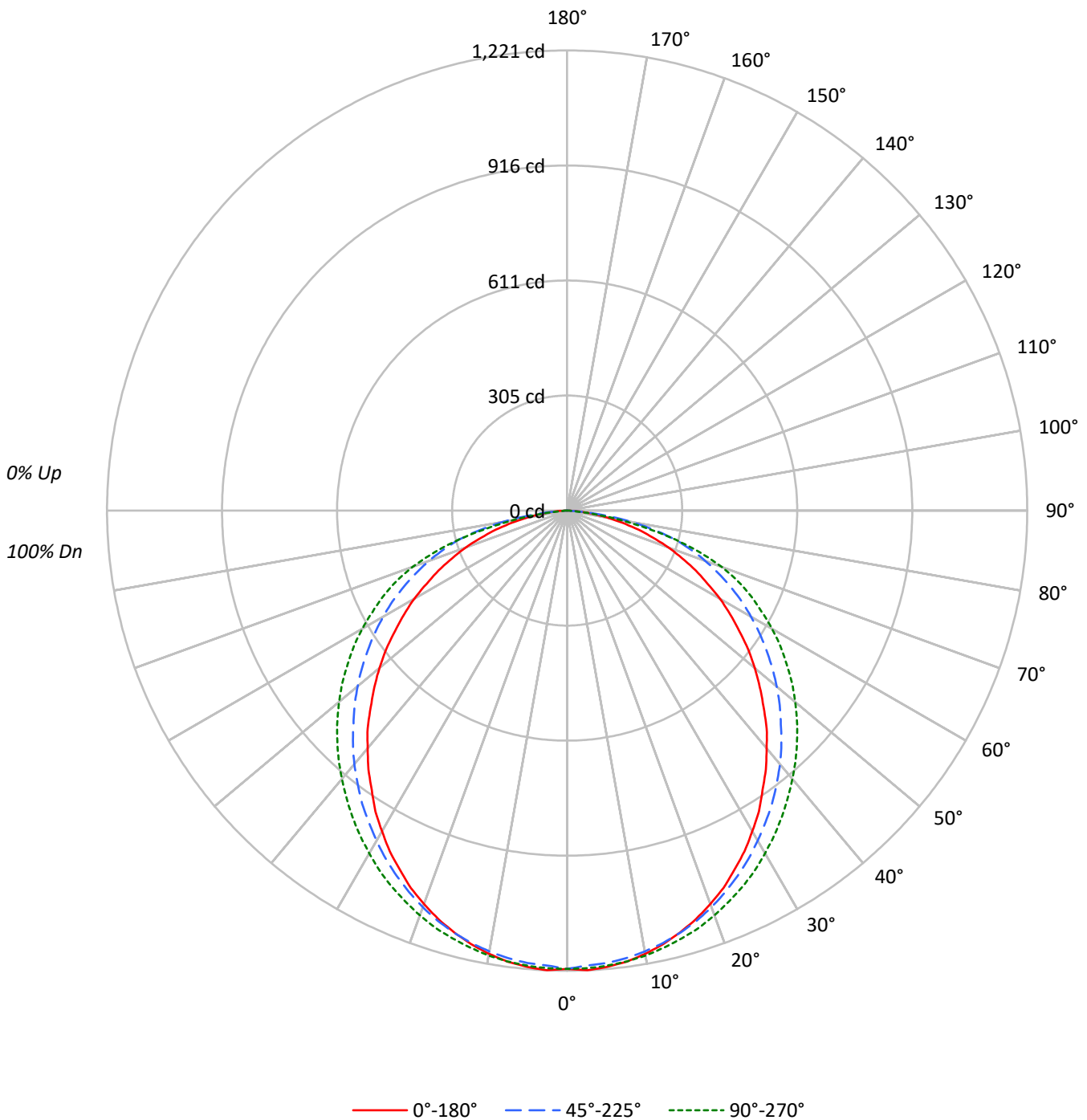
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3272	3272	3272
5°	3283	3255	3274
10°	3263	3246	3276
15°	3228	3230	3274
20°	3180	3208	3273
25°	3120	3176	3270
30°	3052	3143	3263
35°	2971	3116	3261
40°	2892	3086	3266
45°	2804	3052	3283
50°	2722	3038	3305
55°	2618	3028	3335
60°	2525	3033	3380
65°	2395	3042	3433
70°	2248	3065	3431
75°	2038	3093	3101
80°	1671	2672	2208
85°	1238	1263	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.3
10°-20°	328.7	9.3
20°-30°	495.2	14.0
30°-40°	594.2	16.8
40°-50°	619.4	17.5
50°-60°	573.4	16.2
60°-70°	463.3	13.1
70°-80°	282.5	8.0
80°-90°	58.3	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°	939.0	26.6
0°-40°	1533.2	43.4
0°-60°	2726.0	77.2
0°-90°	3530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1215	1212	1205	1214	1212	115
15°	1159	1159	1159	1175	1175	327
25°	1051	1057	1070	1096	1101	484
35°	904	919	948	983	993	567
45°	737	759	802	847	863	569
55°	558	587	645	696	711	500
65°	376	413	478	526	539	372
75°	196	239	298	302	298	206
85°	40	60	41	23	16	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1220.8	1216.9	1208.2	1216.9	1215.3
5°	1215.3	1212.2	1205.1	1213.7	1212.2
7.5°	1207.4	1204.3	1198.0	1208.2	1206.7
10°	1194.1	1192.5	1187.8	1199.6	1198.8
12.5°	1178.3	1177.5	1175.2	1188.5	1187.8
15°	1158.6	1159.4	1159.4	1175.2	1175.2
17.5°	1136.6	1138.2	1141.3	1158.6	1161.0
20°	1110.6	1113.8	1120.1	1139.7	1142.9
22.5°	1083.9	1086.2	1095.7	1119.3	1122.4
25°	1050.8	1057.1	1069.7	1096.5	1101.2
27.5°	1019.3	1024.8	1042.1	1069.7	1077.6
30°	982.3	991.0	1011.4	1041.4	1050.0
32.5°	946.9	956.3	980.0	1014.6	1022.5
35°	904.4	918.6	948.5	983.1	992.6
37.5°	865.8	879.2	913.1	950.8	961.9
40°	823.3	839.9	878.4	918.6	929.6
42.5°	784.0	799.7	841.4	882.4	897.3
45°	736.7	758.8	802.1	846.9	862.7
47.5°	693.5	715.5	765.1	813.1	827.3
50°	650.2	673.8	725.7	775.3	789.5
52.5°	605.3	630.5	686.4	736.0	752.5
55°	558.1	587.2	645.4	695.8	710.8
57.5°	513.2	543.1	605.3	656.5	671.4
60°	469.1	499.8	563.6	612.4	628.1
62.5°	420.3	456.5	522.6	570.7	582.5
65°	376.2	413.2	477.8	525.8	539.2
67.5°	329.8	369.9	434.5	478.6	491.2
70°	285.7	327.4	389.6	430.6	436.1
72.5°	238.5	281.0	344.0	369.9	369.9
75°	196.0	239.3	297.5	302.3	298.3
77.5°	149.6	197.6	235.3	225.9	216.5
80°	107.8	155.1	172.4	155.1	142.5
82.5°	72.4	112.6	103.9	82.6	73.2
85°	40.1	59.8	40.9	22.8	16.5
87.5°	15.0	13.4	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)