

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: P275543

Luminaire Tested: **14CZ2-39-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275543
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

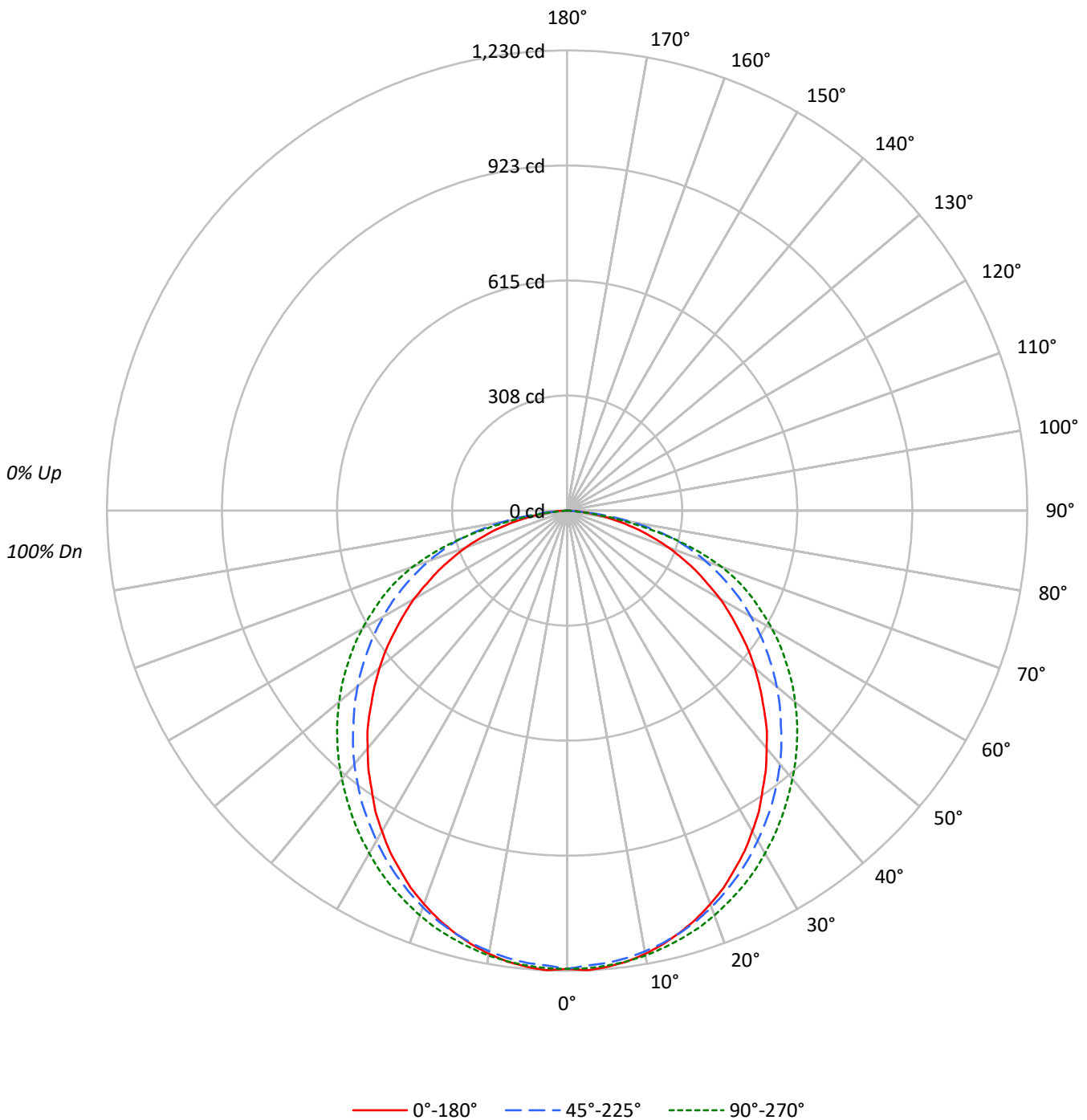
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3297	3297	3297
5°	3307	3279	3299
10°	3287	3269	3300
15°	3252	3254	3298
20°	3204	3231	3297
25°	3143	3200	3294
30°	3075	3166	3287
35°	2993	3139	3285
40°	2914	3108	3289
45°	2825	3075	3307
50°	2742	3061	3329
55°	2638	3050	3359
60°	2544	3055	3405
65°	2413	3065	3458
70°	2264	3088	3456
75°	2052	3116	3124
80°	1683	2690	2224
85°	1247	1272	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.3
10°-20°	331.1	9.3
20°-30°	498.8	14.0
30°-40°	598.6	16.8
40°-50°	623.9	17.5
50°-60°	577.6	16.2
60°-70°	466.7	13.1
70°-80°	284.6	8.0
80°-90°	58.8	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°	945.9	26.6
0°-40°	1544.5	43.4
0°-60°	2746.0	77.2
0°-90°	3556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1224	1221	1214	1223	1221	116
15°	1167	1168	1168	1184	1184	329
25°	1058	1065	1078	1104	1109	488
35°	911	925	956	990	1000	571
45°	742	764	808	853	869	574
55°	562	592	650	701	716	504
65°	379	416	481	530	543	375
75°	197	241	300	304	300	207
85°	40	60	41	23	17	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1229.8	1225.8	1217.1	1225.8	1224.3
5°	1224.3	1221.1	1214.0	1222.7	1221.1
7.5°	1216.3	1213.2	1206.8	1217.1	1215.5
10°	1202.9	1201.3	1196.5	1208.4	1207.6
12.5°	1187.0	1186.2	1183.8	1197.3	1196.5
15°	1167.2	1168.0	1168.0	1183.8	1183.8
17.5°	1145.0	1146.6	1149.7	1167.2	1169.5
20°	1118.8	1122.0	1128.3	1148.1	1151.3
22.5°	1091.8	1094.2	1103.7	1127.5	1130.7
25°	1058.5	1064.9	1077.6	1104.5	1109.3
27.5°	1026.8	1032.4	1049.8	1077.6	1085.5
30°	989.6	998.3	1018.9	1049.0	1057.7
32.5°	953.9	963.4	987.2	1022.1	1030.0
35°	911.1	925.3	955.5	990.4	999.9
37.5°	872.2	885.7	919.8	957.8	968.9
40°	829.4	846.0	884.9	925.3	936.4
42.5°	789.7	805.6	847.6	888.9	903.9
45°	742.2	764.4	808.0	853.2	869.0
47.5°	698.6	720.8	770.7	819.1	833.4
50°	654.9	678.7	731.1	781.0	795.3
52.5°	609.8	635.1	691.4	741.4	758.0
55°	562.2	591.5	650.2	700.9	716.0
57.5°	517.0	547.1	609.8	661.3	676.4
60°	472.6	503.5	567.7	616.9	632.7
62.5°	423.4	459.9	526.5	574.9	586.8
65°	379.0	416.3	481.3	529.7	543.1
67.5°	332.2	372.7	437.7	482.1	494.8
70°	287.8	329.9	392.5	433.7	439.3
72.5°	240.3	283.1	346.5	372.7	372.7
75°	197.4	241.0	299.7	304.5	300.5
77.5°	150.7	199.0	237.1	227.6	218.1
80°	108.6	156.2	173.6	156.2	143.5
82.5°	72.9	113.4	104.7	83.3	73.7
85°	40.4	60.3	41.2	23.0	16.7
87.5°	15.1	13.5	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)