

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: P258691

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3606.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

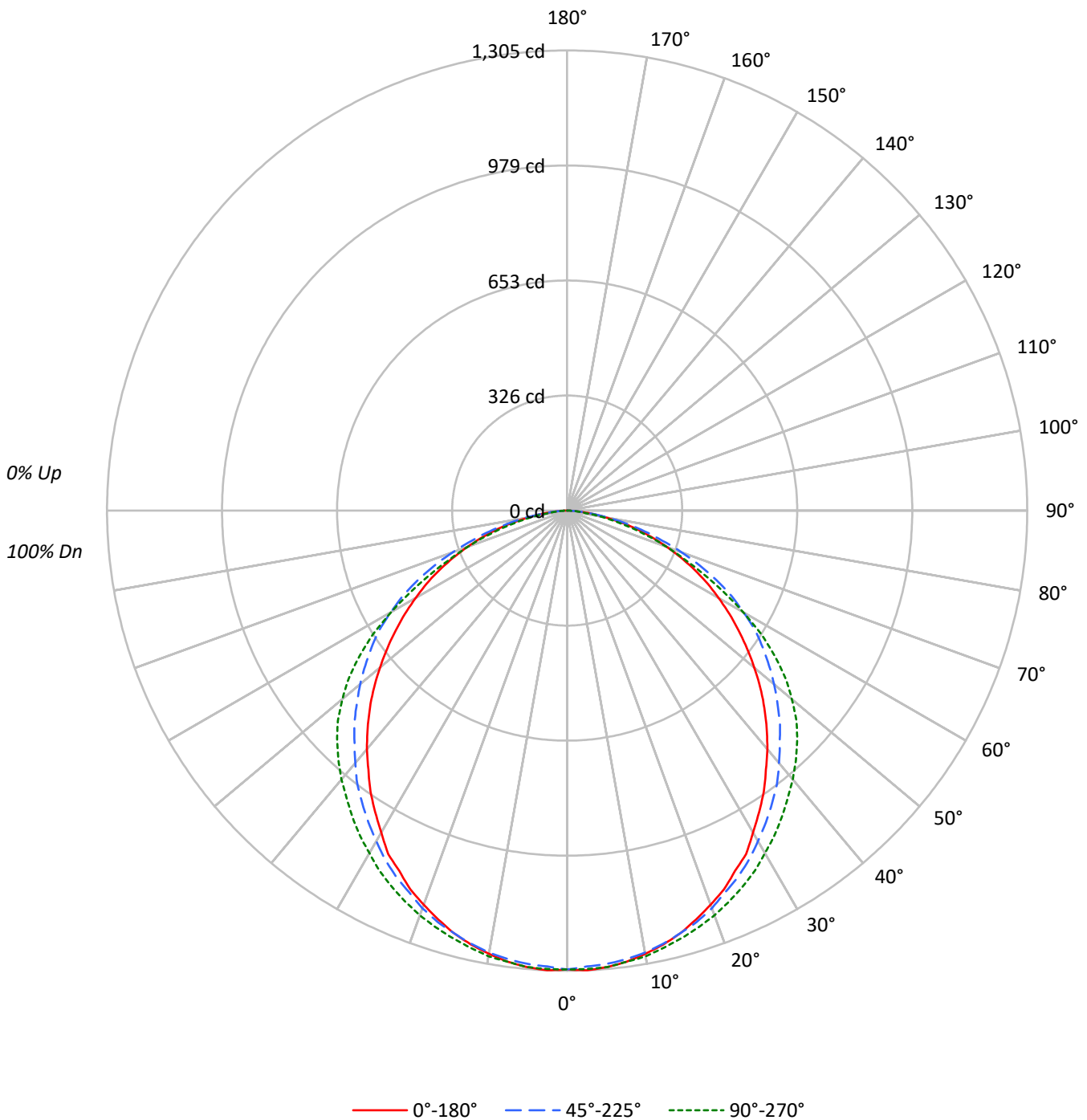
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3502	3502	3502
5°	3510	3486	3510
10°	3488	3478	3507
15°	3457	3457	3497
20°	3406	3436	3497
25°	3347	3404	3494
30°	3276	3364	3486
35°	3194	3329	3486
40°	3104	3285	3497
45°	3011	3247	3511
50°	2902	3208	3483
55°	2786	3178	3369
60°	2669	3110	3100
65°	2547	2977	2717
70°	2364	2714	2350
75°	2144	2366	1941
80°	1708	1874	1432
85°	1207	1044	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.4
10°-20°	351.7	9.8
20°-30°	530.3	14.7
30°-40°	635.7	17.6
40°-50°	659.7	18.3
50°-60°	595.0	16.5
60°-70°	434.1	12.0
70°-80°	227.7	6.3
80°-90°	48.6	1.3
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°	1005.2	27.9
0°-40°	1640.9	45.5
0°-60°	2895.7	80.3
0°-90°	3606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1300	1296	1291	1300	1300	123
15°	1241	1241	1241	1255	1255	350
25°	1127	1132	1147	1172	1177	520
35°	972	983	1013	1051	1061	607
45°	791	807	853	905	923	610
55°	594	615	677	722	718	532
65°	400	423	468	450	427	395
75°	206	235	228	197	187	216
85°	39	48	34	28	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.3	1301.3	1301.3	1301.3	1301.3
2.5°	1304.9	1301.3	1294.2	1301.3	1301.3
5°	1299.5	1296.0	1290.6	1299.5	1299.5
7.5°	1290.6	1287.1	1283.5	1292.4	1290.6
10°	1276.4	1274.6	1272.9	1283.5	1283.5
12.5°	1260.4	1260.4	1258.6	1271.1	1269.3
15°	1240.9	1240.9	1240.9	1255.1	1255.1
17.5°	1216.0	1219.5	1223.1	1239.1	1239.1
20°	1189.3	1192.9	1200.0	1219.5	1221.3
22.5°	1162.6	1164.4	1171.5	1194.6	1200.0
25°	1127.1	1132.4	1146.6	1171.5	1176.9
27.5°	1098.6	1100.4	1116.4	1144.9	1152.0
30°	1054.2	1066.6	1082.6	1114.6	1121.8
32.5°	1013.3	1024.0	1048.9	1082.6	1093.3
35°	972.4	983.1	1013.3	1050.6	1061.3
37.5°	926.2	942.2	977.8	1015.1	1027.5
40°	883.5	897.8	935.1	981.3	995.5
42.5°	837.3	851.5	892.4	944.0	960.0
45°	791.1	807.1	853.3	904.9	922.6
47.5°	743.1	760.9	808.9	865.8	881.8
50°	693.3	712.9	766.2	824.9	832.0
52.5°	643.5	664.9	721.8	773.3	780.4
55°	593.8	615.1	677.3	721.8	718.2
57.5°	545.8	568.9	632.9	656.0	652.4
60°	496.0	520.9	577.8	588.4	576.0
62.5°	449.8	472.9	526.2	517.3	501.3
65°	400.0	423.1	467.5	449.8	426.7
67.5°	350.2	378.7	407.1	376.9	359.1
70°	300.4	332.4	344.9	314.7	298.7
72.5°	252.4	286.2	282.7	252.4	241.8
75°	206.2	234.7	227.6	197.3	186.7
77.5°	156.4	188.4	172.4	147.6	138.7
80°	110.2	138.7	120.9	99.6	92.4
82.5°	72.9	92.4	74.7	58.7	53.3
85°	39.1	48.0	33.8	28.4	26.7
87.5°	16.0	14.2	12.4	12.4	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)