

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: P258860

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3735.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

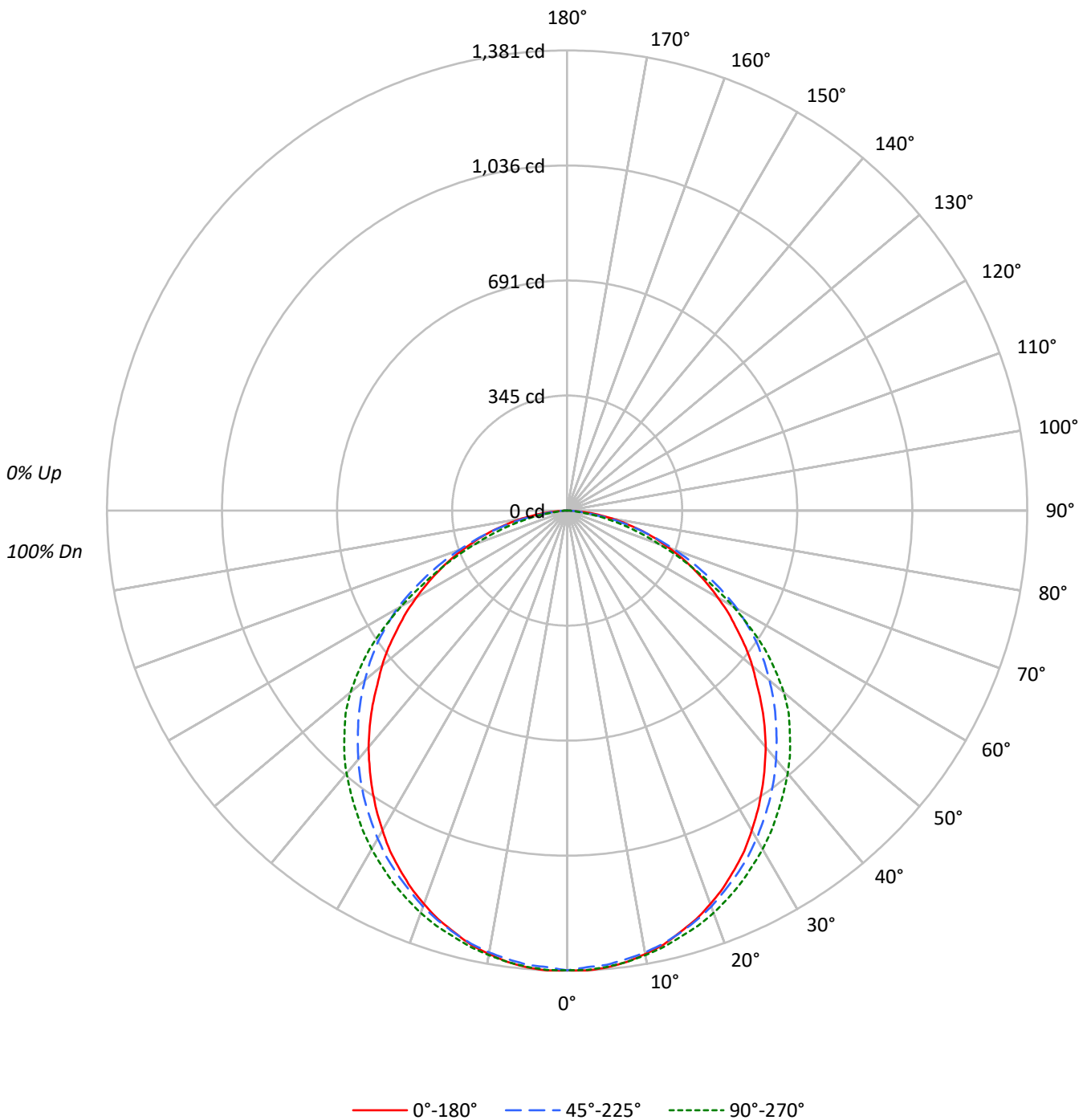
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3713	3713	3713
5°	3718	3696	3713
10°	3693	3679	3702
15°	3649	3654	3686
20°	3599	3622	3679
25°	3528	3578	3662
30°	3444	3532	3646
35°	3351	3483	3625
40°	3256	3426	3619
45°	3142	3369	3597
50°	3038	3316	3553
55°	2921	3264	3397
60°	2813	3171	3099
65°	2691	2967	2723
70°	2541	2697	2305
75°	2371	2336	1904
80°	2089	1805	1393
85°	1646	874	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	3.5
10°-20°	371.4	9.9
20°-30°	557.4	14.9
30°-40°	664.5	17.8
40°-50°	684.4	18.3
50°-60°	610.0	16.3
60°-70°	439.5	11.8
70°-80°	229.9	6.2
80°-90°	47.6	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°	1059.2	28.4
0°-40°	1723.6	46.1
0°-60°	3018.1	80.8
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1376	1373	1368	1376	1375	131
15°	1310	1312	1312	1325	1323	370
25°	1188	1195	1205	1228	1233	547
35°	1020	1034	1060	1095	1103	638
45°	826	844	885	935	945	637
55°	622	642	696	727	724	558
65°	423	438	466	444	428	419
75°	228	240	225	195	183	242
85°	53	47	28	25	25	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1381.4	1378.0	1371.4	1379.7	1379.7
5°	1376.4	1373.1	1368.1	1376.4	1374.7
7.5°	1366.4	1363.1	1358.1	1368.1	1366.4
10°	1351.4	1349.8	1346.4	1356.4	1354.7
12.5°	1334.8	1333.1	1331.4	1341.4	1341.4
15°	1309.8	1311.5	1311.5	1324.8	1323.1
17.5°	1286.5	1288.2	1289.8	1306.5	1306.5
20°	1256.6	1258.2	1264.9	1283.2	1284.8
22.5°	1224.9	1226.6	1234.9	1256.6	1259.9
25°	1188.3	1195.0	1205.0	1228.3	1233.3
27.5°	1151.7	1156.7	1173.3	1200.0	1203.3
30°	1108.4	1118.4	1136.7	1166.7	1173.3
32.5°	1065.2	1076.8	1098.4	1131.7	1140.1
35°	1020.2	1033.5	1060.2	1095.1	1103.4
37.5°	973.6	985.3	1018.6	1055.2	1066.8
40°	927.0	938.7	975.3	1016.9	1030.2
42.5°	877.1	893.7	930.3	976.9	990.3
45°	825.5	843.8	885.4	935.3	945.3
47.5°	772.2	792.2	840.5	890.4	902.1
50°	725.6	743.9	792.2	840.5	848.8
52.5°	675.7	692.4	745.6	785.6	787.2
55°	622.5	642.4	695.7	727.3	724.0
57.5°	574.2	590.8	642.4	659.1	649.1
60°	522.6	537.6	589.2	590.8	575.9
62.5°	472.7	487.6	527.6	515.9	497.6
65°	422.7	437.7	466.0	444.4	427.7
67.5°	374.5	387.8	404.4	376.1	359.5
70°	322.9	341.2	342.8	309.6	292.9
72.5°	277.9	287.9	284.6	253.0	238.0
75°	228.0	239.7	224.7	194.7	183.1
77.5°	181.4	189.7	169.8	141.5	133.1
80°	134.8	139.8	116.5	94.9	89.9
82.5°	91.5	91.5	66.6	51.6	46.6
85°	53.3	46.6	28.3	25.0	25.0
87.5°	18.3	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)