

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: P258807

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258807
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-L82765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4148.0 lumens
Efficiency: N/A
Efficacy: 130.4 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

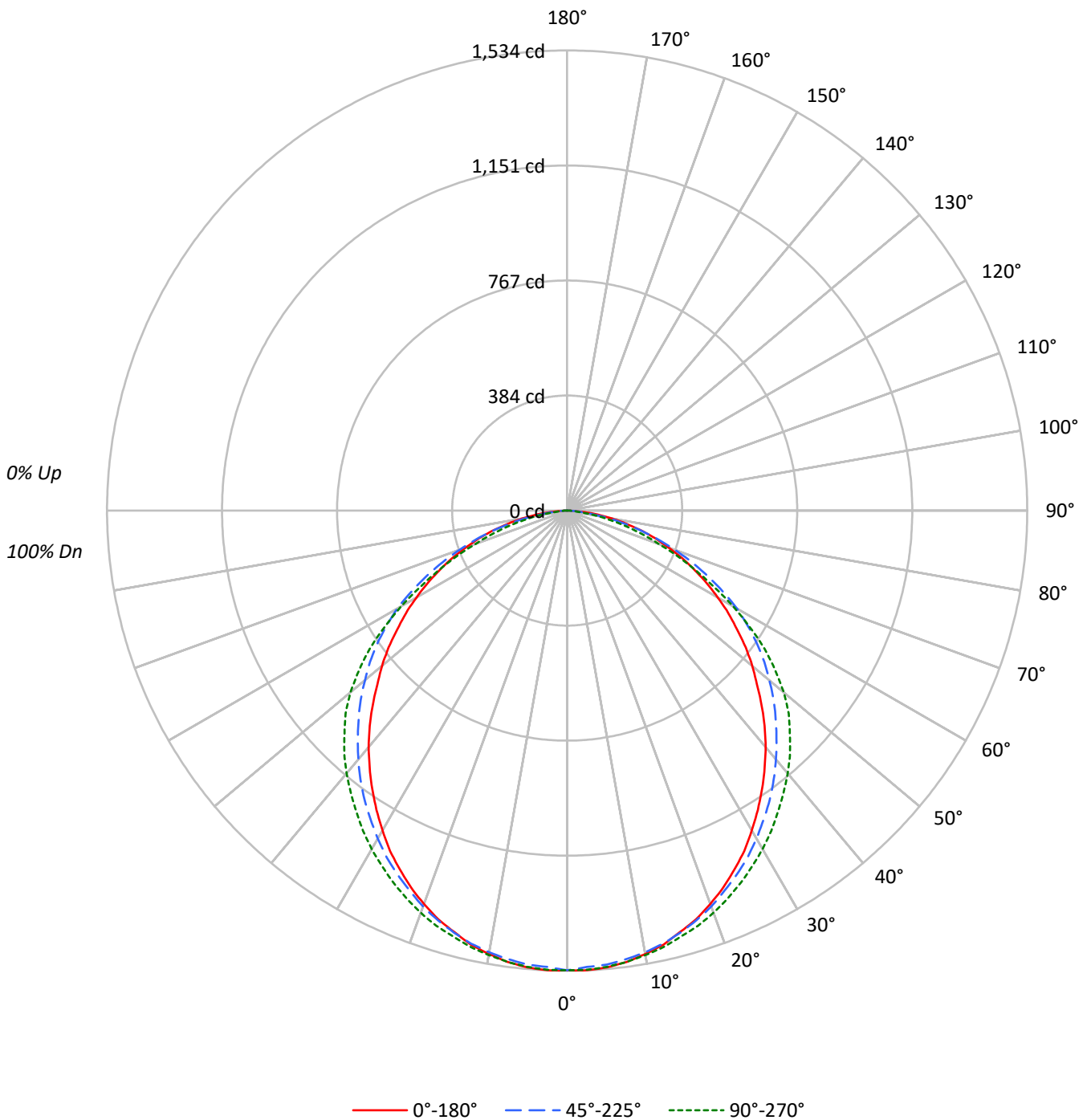
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4123	4123	4123
5°	4129	4104	4124
10°	4101	4086	4111
15°	4052	4058	4094
20°	3996	4023	4086
25°	3918	3973	4067
30°	3825	3923	4049
35°	3722	3868	4026
40°	3616	3805	4019
45°	3489	3742	3996
50°	3374	3683	3947
55°	3243	3625	3772
60°	3124	3521	3442
65°	2989	3295	3025
70°	2821	2996	2559
75°	2633	2594	2114
80°	2320	2005	1547
85°	1825	969	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.5
10°-20°	412.5	9.9
20°-30°	619.0	14.9
30°-40°	738.0	17.8
40°-50°	760.1	18.3
50°-60°	677.4	16.3
60°-70°	488.1	11.8
70°-80°	255.3	6.2
80°-90°	52.8	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°	1176.3	28.4
0°-40°	1914.2	46.1
0°-60°	3351.8	80.8
0°-90°	4148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1529	1525	1519	1529	1527	145
15°	1455	1456	1456	1471	1469	410
25°	1320	1327	1338	1364	1370	608
35°	1133	1148	1177	1216	1225	709
45°	917	937	983	1039	1050	707
55°	691	714	773	808	804	620
65°	470	486	518	494	475	465
75°	253	266	250	216	203	268
85°	59	52	31	28	28	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1534.1	1530.4	1523.0	1532.3	1532.3
5°	1528.6	1524.9	1519.3	1528.6	1526.7
7.5°	1517.5	1513.8	1508.2	1519.3	1517.5
10°	1500.9	1499.0	1495.3	1506.4	1504.5
12.5°	1482.4	1480.5	1478.7	1489.8	1489.8
15°	1454.6	1456.5	1456.5	1471.3	1469.4
17.5°	1428.8	1430.6	1432.5	1450.9	1450.9
20°	1395.5	1397.3	1404.7	1425.1	1426.9
22.5°	1360.4	1362.2	1371.5	1395.5	1399.2
25°	1319.7	1327.1	1338.2	1364.1	1369.6
27.5°	1279.1	1284.6	1303.1	1332.7	1336.3
30°	1231.0	1242.1	1262.4	1295.7	1303.1
32.5°	1182.9	1195.9	1219.9	1256.9	1266.1
35°	1133.0	1147.8	1177.4	1216.2	1225.4
37.5°	1081.3	1094.2	1131.2	1171.8	1184.8
40°	1029.5	1042.5	1083.1	1129.3	1144.1
42.5°	974.1	992.6	1033.2	1085.0	1099.8
45°	916.8	937.1	983.3	1038.8	1049.9
47.5°	857.6	879.8	933.4	988.9	1001.8
50°	805.9	826.2	879.8	933.4	942.7
52.5°	750.4	768.9	828.1	872.4	874.3
55°	691.3	713.5	772.6	807.7	804.0
57.5°	637.7	656.2	713.5	731.9	720.9
60°	580.4	597.0	654.3	656.2	639.5
62.5°	524.9	541.6	585.9	573.0	552.7
65°	469.5	486.1	517.5	493.5	475.0
67.5°	415.9	430.7	449.1	417.7	399.2
70°	358.6	378.9	380.8	343.8	325.3
72.5°	308.7	319.8	316.1	280.9	264.3
75°	253.2	266.2	249.5	216.3	203.3
77.5°	201.5	210.7	188.5	157.1	147.9
80°	149.7	155.3	129.4	105.4	99.8
82.5°	101.7	101.7	73.9	57.3	51.8
85°	59.1	51.8	31.4	27.7	27.7
87.5°	20.3	12.9	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)