

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: P258647

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258647
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-LD5-44-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

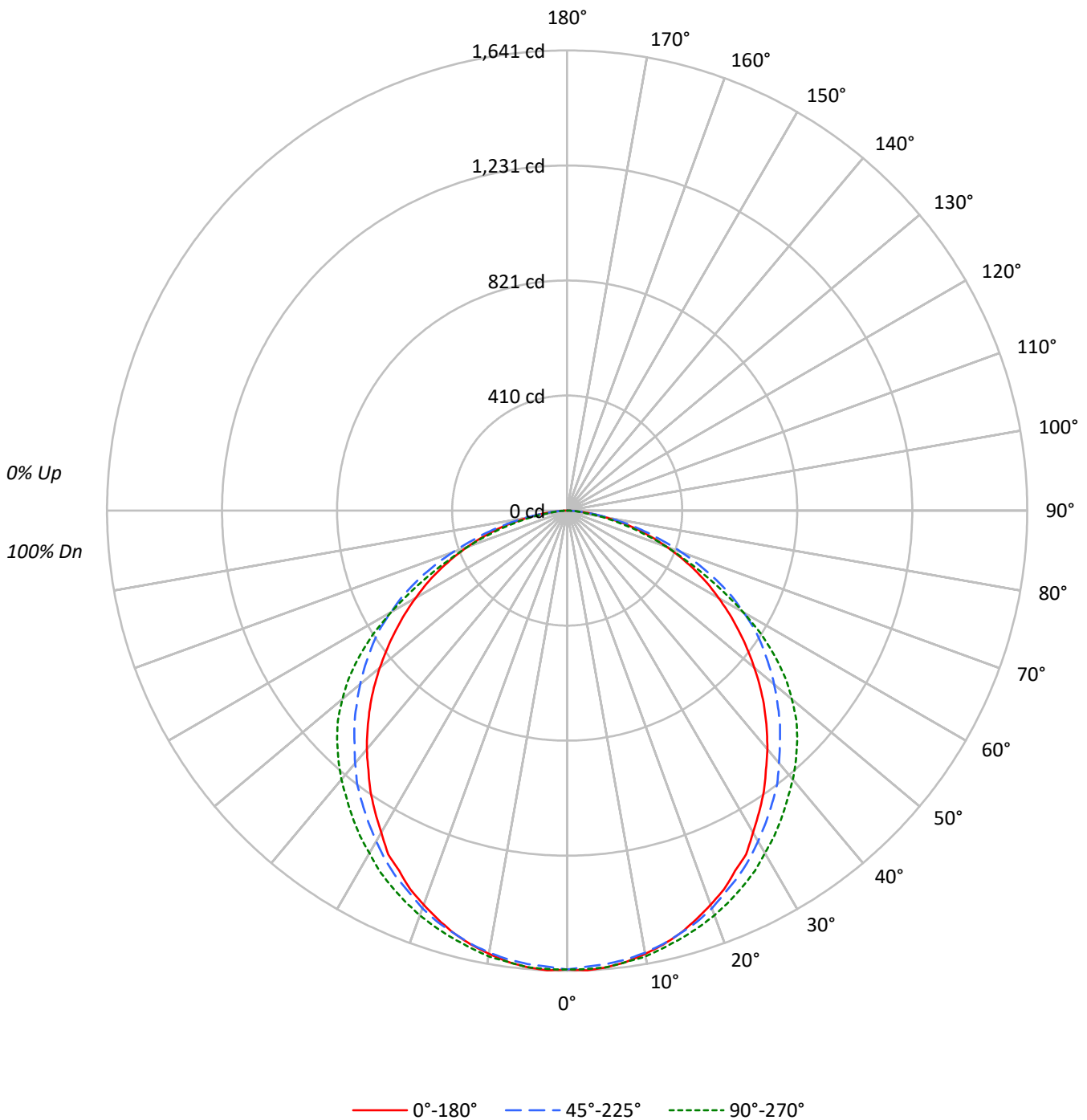
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4404	4404	4404
5°	4415	4384	4415
10°	4386	4374	4411
15°	4347	4347	4397
20°	4283	4322	4398
25°	4209	4282	4395
30°	4120	4231	4383
35°	4017	4187	4385
40°	3903	4131	4398
45°	3786	4084	4416
50°	3650	4034	4380
55°	3503	3996	4237
60°	3357	3911	3899
65°	3203	3744	3417
70°	2972	3412	2955
75°	2696	2976	2441
80°	2148	2356	1802
85°	1519	1312	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.4
10°-20°	442.4	9.8
20°-30°	667.0	14.7
30°-40°	799.5	17.6
40°-50°	829.7	18.3
50°-60°	748.3	16.5
60°-70°	545.9	12.0
70°-80°	286.4	6.3
80°-90°	61.1	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°	1264.2	27.9
0°-40°	2063.7	45.5
0°-60°	3641.6	80.3
0°-90°	4535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1634	1630	1623	1634	1634	155
15°	1560	1560	1560	1578	1578	440
25°	1418	1424	1442	1473	1480	654
35°	1223	1236	1274	1321	1335	764
45°	995	1015	1073	1138	1160	767
55°	747	774	852	908	903	669
65°	503	532	588	566	537	497
75°	259	295	286	248	235	272
85°	49	60	42	36	34	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.6	1636.6	1636.6	1636.6	1636.6
2.5°	1641.0	1636.6	1627.6	1636.6	1636.6
5°	1634.3	1629.8	1623.1	1634.3	1634.3
7.5°	1623.1	1618.7	1614.2	1625.4	1623.1
10°	1605.3	1603.0	1600.8	1614.2	1614.2
12.5°	1585.1	1585.1	1582.9	1598.5	1596.3
15°	1560.5	1560.5	1560.5	1578.4	1578.4
17.5°	1529.2	1533.7	1538.2	1558.3	1558.3
20°	1495.7	1500.2	1509.1	1533.7	1535.9
22.5°	1462.2	1464.4	1473.3	1502.4	1509.1
25°	1417.5	1424.2	1442.0	1473.3	1480.1
27.5°	1381.7	1383.9	1404.0	1439.8	1448.8
30°	1325.8	1341.4	1361.6	1401.8	1410.7
32.5°	1274.4	1287.8	1319.1	1361.6	1375.0
35°	1222.9	1236.4	1274.4	1321.3	1334.7
37.5°	1164.8	1184.9	1229.7	1276.6	1292.3
40°	1111.2	1129.0	1176.0	1234.1	1252.0
42.5°	1053.0	1070.9	1122.3	1187.2	1207.3
45°	994.9	1015.0	1073.1	1138.0	1160.3
47.5°	934.5	956.9	1017.3	1088.8	1108.9
50°	871.9	896.5	963.6	1037.4	1046.3
52.5°	809.3	836.2	907.7	972.5	981.5
55°	746.7	773.6	851.8	907.7	903.2
57.5°	686.4	715.4	795.9	825.0	820.5
60°	623.8	655.1	726.6	740.0	724.4
62.5°	565.6	594.7	661.8	650.6	630.5
65°	503.0	532.1	588.0	565.6	536.6
67.5°	440.4	476.2	512.0	474.0	451.6
70°	377.8	418.1	433.7	395.7	375.6
72.5°	317.5	360.0	355.5	317.5	304.1
75°	259.3	295.1	286.2	248.2	234.8
77.5°	196.7	237.0	216.9	185.6	174.4
80°	138.6	174.4	152.0	125.2	116.3
82.5°	91.7	116.3	93.9	73.8	67.1
85°	49.2	60.4	42.5	35.8	33.5
87.5°	20.1	17.9	15.7	15.7	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)