

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: P258804

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258804
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

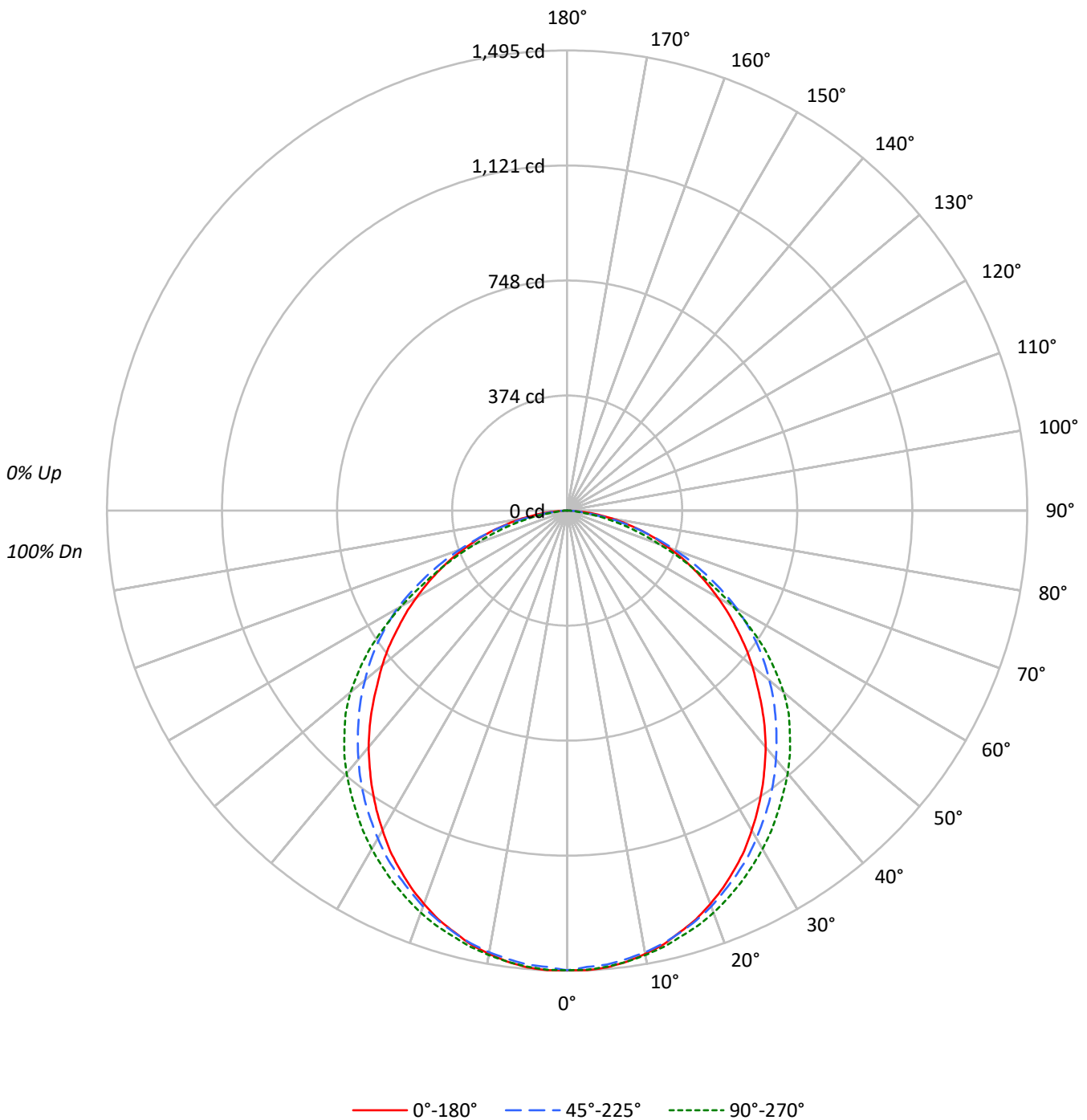
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258804

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P258804

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K

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°	4018	4018	4018
5°	4024	3999	4019
10°	3996	3982	4006
15°	3949	3954	3989
20°	3894	3920	3982
25°	3818	3872	3963
30°	3727	3823	3946
35°	3627	3769	3923
40°	3524	3707	3916
45°	3400	3647	3893
50°	3288	3589	3846
55°	3160	3532	3676
60°	3043	3432	3354
65°	2913	3211	2947
70°	2749	2919	2494
75°	2566	2528	2060
80°	2261	1954	1508
85°	1778	945	834



TEST NUMBER: P258804

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.5
10°-20°	401.9	9.9
20°-30°	603.2	14.9
30°-40°	719.1	17.8
40°-50°	740.7	18.3
50°-60°	660.1	16.3
60°-70°	475.6	11.8
70°-80°	248.8	6.2
80°-90°	51.4	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°	1146.2	28.4
0°-40°	1865.3	46.1
0°-60°	3266.2	80.8
0°-90°	4042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1490	1486	1480	1490	1488	141
15°	1418	1419	1419	1434	1432	400
25°	1286	1293	1304	1329	1335	592
35°	1104	1118	1147	1185	1194	690
45°	893	913	958	1012	1023	689
55°	674	695	753	787	784	604
65°	458	474	504	481	463	453
75°	247	259	243	211	198	261
85°	58	50	31	27	27	68
90°	0	0	0	0	0	



TEST NUMBER: P258804

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.1	1493.1	1493.1	1493.1	1493.1
2.5°	1494.9	1491.3	1484.1	1493.1	1493.1
5°	1489.5	1485.9	1480.5	1489.5	1487.7
7.5°	1478.7	1475.1	1469.7	1480.5	1478.7
10°	1462.5	1460.7	1457.1	1467.9	1466.1
12.5°	1444.5	1442.7	1440.9	1451.7	1451.7
15°	1417.5	1419.3	1419.3	1433.7	1431.9
17.5°	1392.3	1394.1	1395.9	1413.9	1413.9
20°	1359.8	1361.6	1368.8	1388.7	1390.5
22.5°	1325.6	1327.4	1336.4	1359.8	1363.4
25°	1286.0	1293.2	1304.0	1329.2	1334.6
27.5°	1246.4	1251.8	1269.8	1298.6	1302.2
30°	1199.5	1210.3	1230.2	1262.6	1269.8
32.5°	1152.7	1165.3	1188.7	1224.8	1233.8
35°	1104.1	1118.5	1147.3	1185.1	1194.1
37.5°	1053.6	1066.3	1102.3	1141.9	1154.5
40°	1003.2	1015.8	1055.4	1100.5	1114.9
42.5°	949.2	967.2	1006.8	1057.2	1071.7
45°	893.3	913.2	958.2	1012.2	1023.0
47.5°	835.7	857.3	909.6	963.6	976.2
50°	785.3	805.1	857.3	909.6	918.6
52.5°	731.2	749.3	806.9	850.1	851.9
55°	673.6	695.2	752.9	787.1	783.5
57.5°	621.4	639.4	695.2	713.2	702.4
60°	565.5	581.8	637.6	639.4	623.2
62.5°	511.5	527.7	571.0	558.3	538.5
65°	457.5	473.7	504.3	480.9	462.9
67.5°	405.2	419.7	437.7	407.0	389.0
70°	349.4	369.2	371.0	335.0	317.0
72.5°	300.8	311.6	308.0	273.8	257.6
75°	246.8	259.4	243.1	210.7	198.1
77.5°	196.3	205.3	183.7	153.1	144.1
80°	145.9	151.3	126.1	102.7	97.3
82.5°	99.1	99.1	72.0	55.8	50.4
85°	57.6	50.4	30.6	27.0	27.0
87.5°	19.8	12.6	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)