

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: P258879

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1732.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

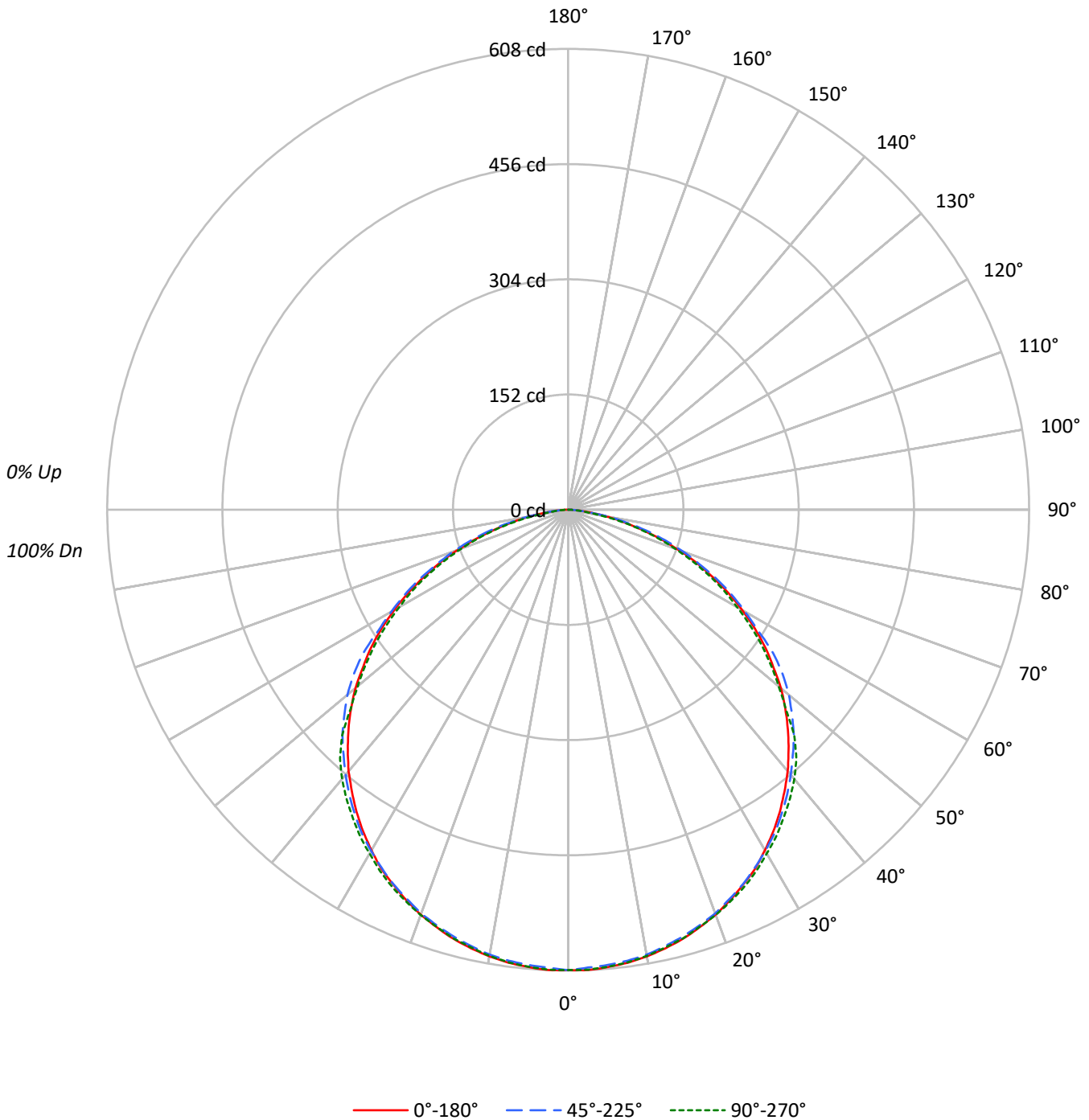
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258879

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P258879

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4000K

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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1635	1635	1635
5°	1636	1629	1635
10°	1635	1629	1633
15°	1633	1624	1631
20°	1628	1623	1629
25°	1621	1619	1631
30°	1612	1615	1628
35°	1599	1612	1628
40°	1583	1604	1630
45°	1560	1603	1605
50°	1534	1590	1517
55°	1491	1549	1462
60°	1428	1449	1385
65°	1337	1373	1301
70°	1217	1266	1177
75°	1016	1109	998
80°	804	849	691
85°	522	454	401



TEST NUMBER: P258879

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.3
10°-20°	165.2	9.5
20°-30°	252.1	14.6
30°-40°	307.4	17.7
40°-50°	321.9	18.6
50°-60°	286.3	16.5
60°-70°	211.3	12.2
70°-80°	109.2	6.3
80°-90°	21.2	1.2
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°	474.8	27.4
0°-40°	782.2	45.2
0°-60°	1390.4	80.3
0°-90°	1732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	606	605	603	605	605	58
15°	586	585	583	585	585	165
25°	546	546	545	549	549	252
35°	487	487	491	496	496	304
45°	410	413	421	425	422	316
55°	318	325	330	316	312	283
65°	210	225	216	208	204	208
75°	98	108	107	98	96	106
85°	17	19	15	14	13	22
90°	0	0	0	0	0	



TEST NUMBER: P258879

CATALOG NUMBER: 14CZ-LD5-25-RDP-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.4	607.4	607.4	607.4	607.4
2.5°	608.0	607.4	604.6	607.4	607.4
5°	605.7	605.2	602.9	605.2	605.2
7.5°	602.9	602.3	600.1	602.3	602.3
10°	598.4	597.8	596.1	598.4	597.8
12.5°	592.7	592.7	589.9	592.7	591.6
15°	586.0	585.4	583.1	585.4	585.4
17.5°	577.5	576.9	575.2	578.1	576.9
20°	568.5	567.9	566.8	569.6	569.0
22.5°	557.7	557.7	556.0	559.4	559.4
25°	545.9	545.9	545.3	549.3	549.3
27.5°	534.0	532.9	532.9	536.9	537.4
30°	518.8	518.8	519.9	524.4	523.9
32.5°	503.5	504.1	506.4	510.3	510.9
35°	486.6	487.2	490.6	496.2	495.6
37.5°	468.5	470.2	474.2	480.4	480.4
40°	450.5	451.6	456.7	463.5	464.0
42.5°	430.2	433.0	438.6	446.5	445.4
45°	409.8	412.7	421.1	425.1	421.7
47.5°	388.4	391.8	400.2	400.8	389.5
50°	366.4	370.3	379.9	368.6	362.4
52.5°	341.0	348.3	356.8	341.0	337.0
55°	317.8	324.6	330.2	316.1	311.6
57.5°	291.9	300.9	296.9	290.2	284.5
60°	265.3	274.9	269.3	262.5	257.4
62.5°	238.2	249.0	243.3	236.5	232.0
65°	210.0	224.7	215.6	208.3	204.4
67.5°	183.5	197.6	186.9	181.2	177.3
70°	154.7	166.5	160.9	153.5	149.6
72.5°	126.5	135.5	133.8	125.9	123.1
75°	97.7	107.8	106.7	98.2	96.0
77.5°	73.4	83.0	79.6	72.8	70.0
80°	51.9	58.1	54.8	46.9	44.6
82.5°	31.6	36.7	31.0	26.5	24.3
85°	16.9	18.6	14.7	13.5	13.0
87.5°	6.2	6.2	6.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)