

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: P259114

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1634.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

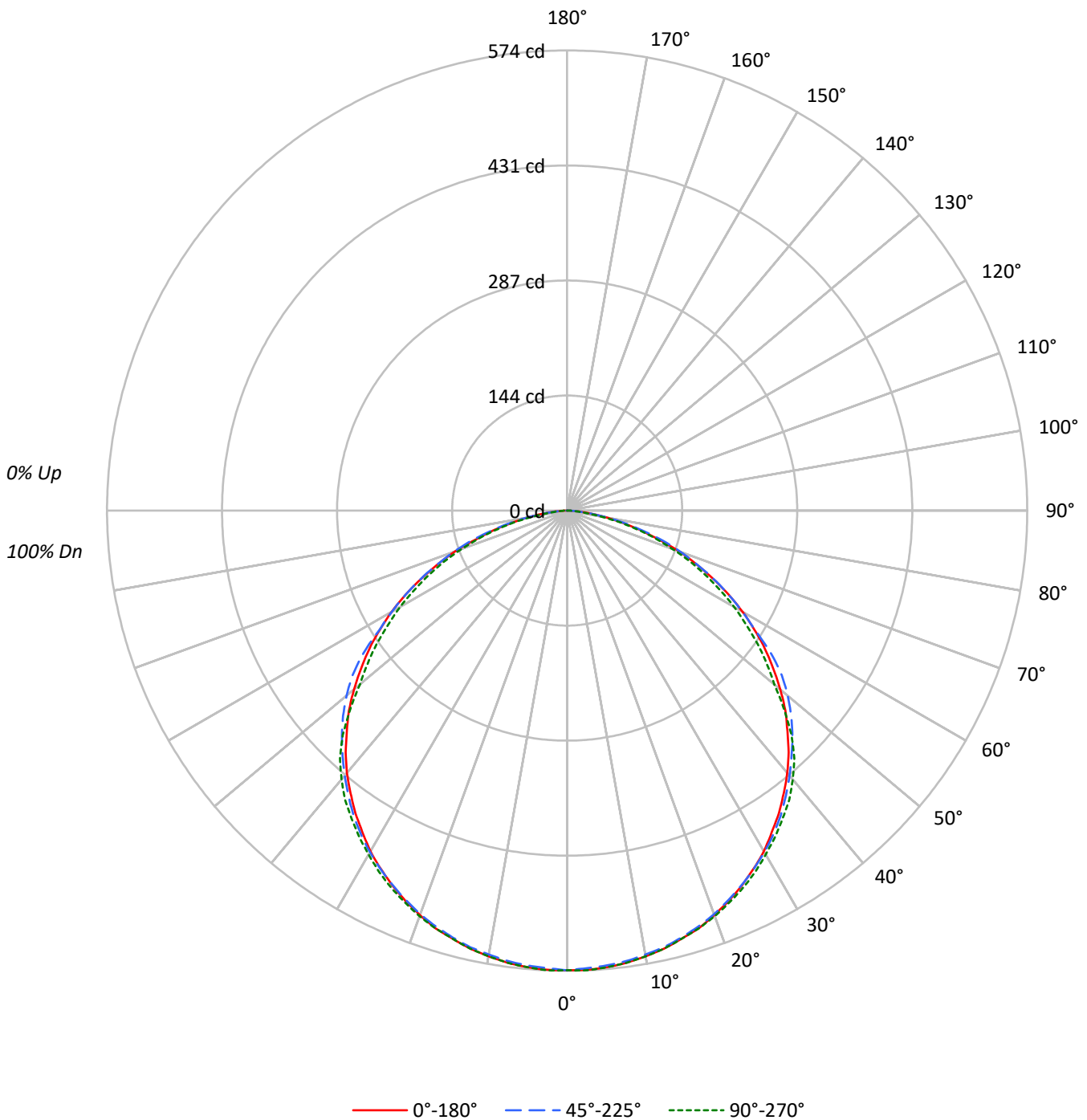
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1543	1543	1543
5°	1544	1538	1544
10°	1542	1536	1542
15°	1540	1536	1540
20°	1538	1534	1542
25°	1531	1530	1542
30°	1525	1529	1539
35°	1513	1526	1540
40°	1501	1516	1538
45°	1478	1512	1506
50°	1453	1504	1413
55°	1415	1457	1361
60°	1361	1358	1296
65°	1276	1283	1212
70°	1172	1184	1098
75°	984	1030	938
80°	781	798	660
85°	513	445	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.3
10°-20°	156.1	9.6
20°-30°	238.3	14.6
30°-40°	290.8	17.8
40°-50°	304.1	18.6
50°-60°	269.2	16.5
60°-70°	198.2	12.1
70°-80°	102.6	6.3
80°-90°	20.4	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°	448.7	27.5
0°-40°	739.5	45.3
0°-60°	1312.7	80.3
0°-90°	1634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	572	570	572	572	54
15°	553	553	551	554	553	156
25°	516	516	515	519	519	238
35°	460	462	464	469	469	288
45°	388	392	397	401	396	300
55°	302	308	310	294	290	269
65°	200	212	202	194	190	199
75°	95	101	99	93	90	101
85°	17	18	14	13	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.4	573.4	573.4	573.4	573.4
2.5°	573.4	573.4	571.2	573.4	574.0
5°	571.7	571.7	569.5	571.7	571.7
7.5°	569.0	568.4	566.8	569.0	569.0
10°	564.5	564.5	562.3	565.1	564.5
12.5°	559.6	559.0	557.9	560.1	559.6
15°	552.9	552.9	551.3	553.5	552.9
17.5°	546.3	545.7	544.1	546.3	546.3
20°	536.9	536.3	535.8	538.0	538.5
22.5°	526.9	526.4	525.8	529.1	529.1
25°	515.8	515.8	515.3	518.6	519.2
27.5°	503.7	503.7	504.2	508.6	508.1
30°	490.9	490.9	492.0	495.4	495.4
32.5°	475.4	476.5	478.8	482.6	482.6
35°	460.5	461.6	464.4	468.8	468.8
37.5°	443.9	445.5	448.3	453.8	455.0
40°	427.3	428.4	431.7	437.8	437.8
42.5°	409.0	410.1	414.6	420.6	419.5
45°	388.5	391.9	397.4	400.7	395.7
47.5°	369.2	371.4	379.1	375.3	367.0
50°	347.0	351.5	359.2	345.4	337.6
52.5°	324.3	329.3	337.6	318.2	313.8
55°	301.6	307.7	310.5	294.4	290.0
57.5°	277.3	283.9	278.4	269.0	264.6
60°	252.9	260.7	252.4	243.5	240.8
62.5°	227.5	236.3	226.9	219.2	215.3
65°	200.4	212.5	201.5	193.7	190.4
67.5°	173.8	186.5	174.9	168.3	166.0
70°	148.9	156.1	150.5	143.9	139.5
72.5°	119.0	126.2	125.1	117.9	115.1
75°	94.6	101.3	99.1	93.0	90.2
77.5°	70.3	77.5	75.3	68.1	67.0
80°	50.4	55.3	51.5	44.8	42.6
82.5°	31.5	35.4	30.4	25.5	24.4
85°	16.6	17.7	14.4	12.7	12.2
87.5°	5.5	6.1	6.1	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)