

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: P258984

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258984
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-LD5-44-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

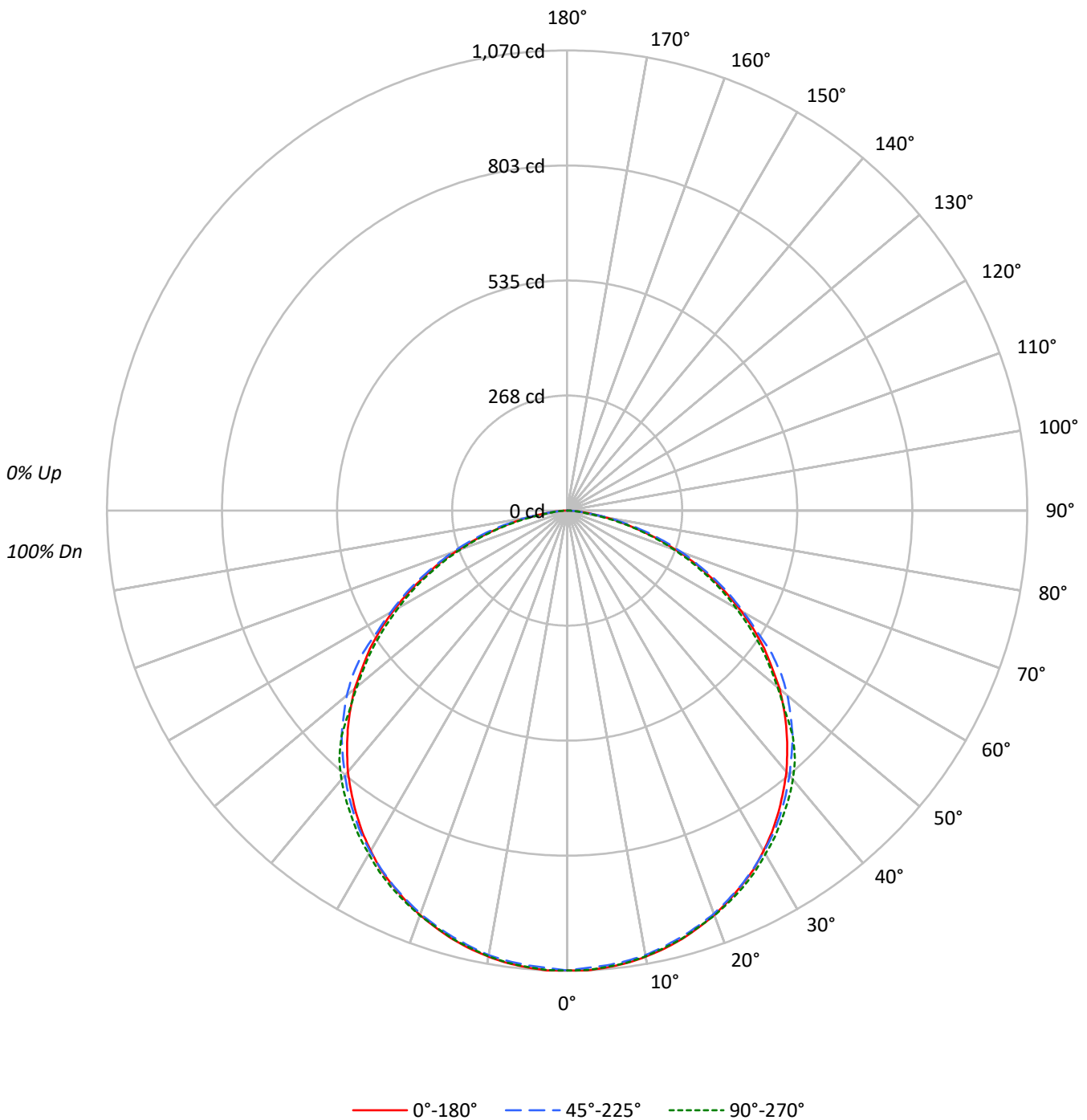
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258984

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P258984

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5700K

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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2877	2877	2877
5°	2880	2867	2878
10°	2878	2867	2876
15°	2874	2860	2871
20°	2866	2857	2869
25°	2853	2850	2871
30°	2838	2844	2866
35°	2814	2837	2866
40°	2786	2824	2870
45°	2746	2821	2825
50°	2700	2800	2671
55°	2625	2728	2574
60°	2514	2551	2439
65°	2354	2417	2290
70°	2142	2228	2072
75°	1787	1953	1756
80°	1416	1494	1216
85°	920	797	707



TEST NUMBER: P258984

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.3
10°-20°	290.7	9.5
20°-30°	443.8	14.6
30°-40°	541.1	17.7
40°-50°	566.6	18.6
50°-60°	504.1	16.5
60°-70°	371.9	12.2
70°-80°	192.2	6.3
80°-90°	37.3	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°	835.8	27.4
0°-40°	1376.9	45.2
0°-60°	2447.6	80.3
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1066	1065	1061	1065	1065	101
15°	1032	1030	1027	1030	1030	291
25°	961	961	960	967	967	443
35°	857	858	864	874	872	536
45°	722	726	741	748	742	556
55°	560	571	581	556	549	499
65°	370	396	380	367	360	366
75°	172	190	188	173	169	186
85°	30	33	26	24	23	39
90°	0	0	0	0	0	



TEST NUMBER: P258984

CATALOG NUMBER: 14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.3	1069.3	1069.3	1069.3	1069.3
2.5°	1070.3	1069.3	1064.3	1069.3	1069.3
5°	1066.3	1065.3	1061.3	1065.3	1065.3
7.5°	1061.3	1060.4	1056.4	1060.4	1060.4
10°	1053.4	1052.4	1049.4	1053.4	1052.4
12.5°	1043.5	1043.5	1038.5	1043.5	1041.5
15°	1031.5	1030.5	1026.6	1030.5	1030.5
17.5°	1016.6	1015.6	1012.7	1017.6	1015.6
20°	1000.7	999.7	997.7	1002.7	1001.7
22.5°	981.8	981.8	978.9	984.8	984.8
25°	961.0	961.0	960.0	966.9	966.9
27.5°	940.1	938.1	938.1	945.1	946.1
30°	913.3	913.3	915.3	923.2	922.2
32.5°	886.4	887.4	891.4	898.4	899.4
35°	856.6	857.6	863.6	873.5	872.5
37.5°	824.8	827.8	834.8	845.7	845.7
40°	793.0	795.0	804.0	815.9	816.9
42.5°	757.3	762.2	772.2	786.1	784.1
45°	721.5	726.4	741.4	748.3	742.3
47.5°	683.7	689.7	704.6	705.6	685.7
50°	645.0	651.9	668.8	648.9	638.0
52.5°	600.2	613.2	628.1	600.2	593.3
55°	559.5	571.4	581.4	556.5	548.6
57.5°	513.8	529.7	522.7	510.8	500.9
60°	467.1	484.0	474.0	462.1	453.2
62.5°	419.4	438.3	428.3	416.4	408.4
65°	369.7	395.5	379.6	366.7	359.7
67.5°	323.0	347.8	328.9	319.0	312.0
70°	272.3	293.2	283.2	270.3	263.3
72.5°	222.6	238.5	235.5	221.6	216.6
75°	171.9	189.8	187.8	172.9	168.9
77.5°	129.2	146.1	140.1	128.2	123.2
80°	91.4	102.4	96.4	82.5	78.5
82.5°	55.7	64.6	54.7	46.7	42.7
85°	29.8	32.8	25.8	23.9	22.9
87.5°	10.9	10.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)