

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: P258969

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258969
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-LD5-39-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2470.0 lumens
Efficiency: N/A
Efficacy: 80.2 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

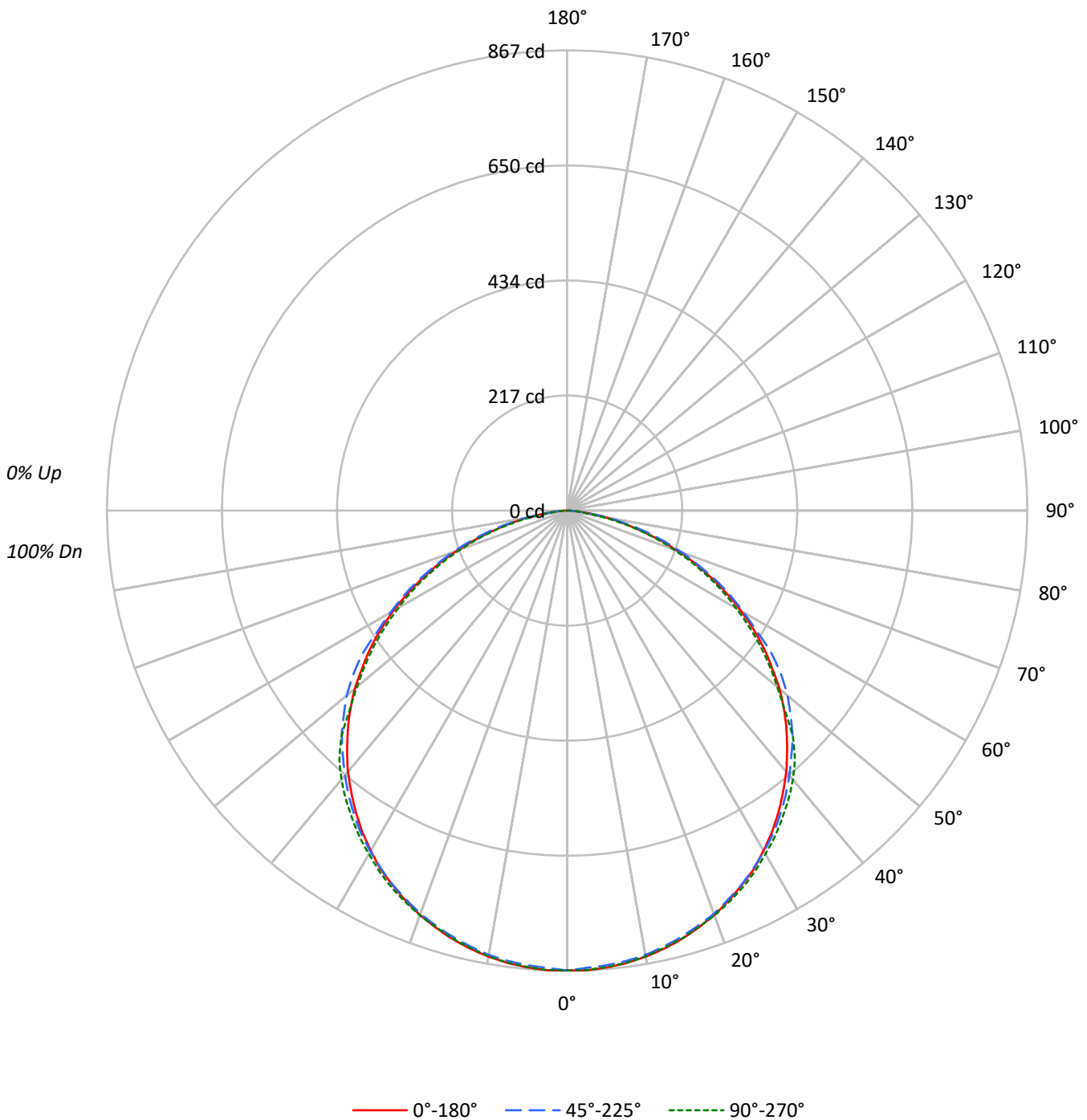
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258969

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P258969

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3000K

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°	2331	2331	2331
5°	2333	2323	2331
10°	2332	2323	2330
15°	2328	2317	2326
20°	2322	2315	2324
25°	2311	2309	2326
30°	2299	2304	2321
35°	2280	2298	2322
40°	2257	2288	2325
45°	2224	2286	2289
50°	2187	2268	2164
55°	2126	2210	2085
60°	2037	2067	1976
65°	1907	1958	1855
70°	1736	1805	1678
75°	1448	1582	1423
80°	1148	1210	986
85°	747	645	571



TEST NUMBER: P258969

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.3
10°-20°	235.5	9.5
20°-30°	359.5	14.6
30°-40°	438.4	17.7
40°-50°	459.0	18.6
50°-60°	408.4	16.5
60°-70°	301.3	12.2
70°-80°	155.7	6.3
80°-90°	30.3	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°	677.1	27.4
0°-40°	1115.5	45.2
0°-60°	1982.8	80.3
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	864	863	860	863	863	82
15°	836	835	832	835	835	236
25°	778	778	778	783	783	359
35°	694	695	700	708	707	434
45°	584	588	601	606	601	451
55°	453	463	471	451	444	404
65°	300	320	308	297	291	297
75°	139	154	152	140	137	151
85°	24	27	21	19	18	31
90°	0	0	0	0	0	



TEST NUMBER: P258969

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.2	866.2	866.2	866.2	866.2
2.5°	867.0	866.2	862.2	866.2	866.2
5°	863.8	863.0	859.8	863.0	863.0
7.5°	859.8	859.0	855.8	859.0	859.0
10°	853.4	852.6	850.1	853.4	852.6
12.5°	845.3	845.3	841.3	845.3	843.7
15°	835.6	834.8	831.6	834.8	834.8
17.5°	823.6	822.8	820.4	824.4	822.8
20°	810.7	809.9	808.3	812.3	811.5
22.5°	795.4	795.4	793.0	797.8	797.8
25°	778.5	778.5	777.7	783.3	783.3
27.5°	761.6	760.0	760.0	765.6	766.4
30°	739.8	739.8	741.5	747.9	747.1
32.5°	718.1	718.9	722.1	727.8	728.6
35°	694.0	694.8	699.6	707.6	706.8
37.5°	668.2	670.6	676.2	685.1	685.1
40°	642.4	644.0	651.3	660.9	661.8
42.5°	613.5	617.5	625.5	636.8	635.2
45°	584.5	588.5	600.6	606.2	601.4
47.5°	553.9	558.7	570.8	571.6	555.5
50°	522.5	528.1	541.8	525.7	516.8
52.5°	486.3	496.7	508.8	486.3	480.6
55°	453.2	462.9	471.0	450.8	444.4
57.5°	416.2	429.1	423.5	413.8	405.7
60°	378.4	392.1	384.0	374.4	367.1
62.5°	339.7	355.0	347.0	337.3	330.9
65°	299.5	320.4	307.5	297.1	291.4
67.5°	261.6	281.8	266.5	258.4	252.8
70°	220.6	237.5	229.4	219.0	213.3
72.5°	180.3	193.2	190.8	179.5	175.5
75°	139.3	153.8	152.2	140.1	136.9
77.5°	104.7	118.3	113.5	103.9	99.8
80°	74.1	82.9	78.1	66.8	63.6
82.5°	45.1	52.3	44.3	37.8	34.6
85°	24.2	26.6	20.9	19.3	18.5
87.5°	8.9	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)