

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: P258976

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258976
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2735.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

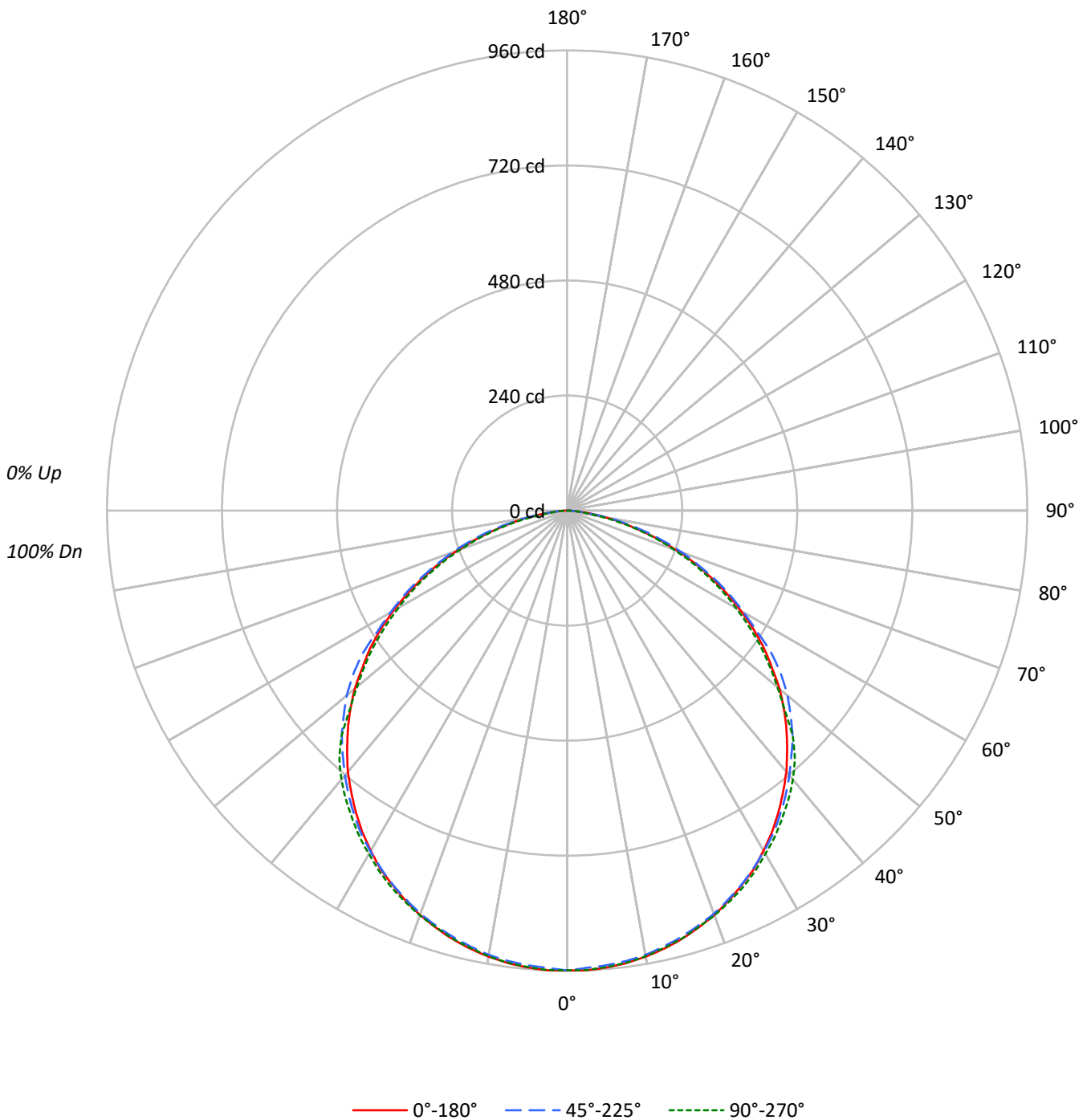
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258976

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P258976

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-6500K

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°	2581	2581	2581
5°	2584	2572	2581
10°	2582	2572	2579
15°	2578	2565	2575
20°	2571	2563	2573
25°	2559	2557	2575
30°	2545	2551	2570
35°	2524	2545	2571
40°	2499	2533	2574
45°	2463	2531	2534
50°	2422	2511	2396
55°	2355	2447	2309
60°	2255	2288	2188
65°	2111	2168	2055
70°	1922	1999	1858
75°	1603	1752	1575
80°	1271	1340	1091
85°	824	716	633



TEST NUMBER: P258976

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.3
10°-20°	260.8	9.5
20°-30°	398.1	14.6
30°-40°	485.4	17.7
40°-50°	508.2	18.6
50°-60°	452.2	16.5
60°-70°	333.6	12.2
70°-80°	172.4	6.3
80°-90°	33.5	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°	749.7	27.4
0°-40°	1235.1	45.2
0°-60°	2195.5	80.3
0°-90°	2735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	956	956	952	956	956	91
15°	925	924	921	924	924	261
25°	862	862	861	867	867	398
35°	768	769	775	784	783	481
45°	647	652	665	671	666	499
55°	502	513	522	499	492	447
65°	332	355	340	329	323	329
75°	154	170	168	155	152	167
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



TEST NUMBER: P258976

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.2	959.2	959.2	959.2	959.2
2.5°	960.1	959.2	954.7	959.2	959.2
5°	956.5	955.6	952.0	955.6	955.6
7.5°	952.0	951.2	947.6	951.2	951.2
10°	944.9	944.0	941.3	944.9	944.0
12.5°	936.0	936.0	931.5	936.0	934.2
15°	925.3	924.4	920.8	924.4	924.4
17.5°	911.9	911.0	908.4	912.8	911.0
20°	897.7	896.8	895.0	899.4	898.6
22.5°	880.7	880.7	878.1	883.4	883.4
25°	862.0	862.0	861.1	867.4	867.4
27.5°	843.3	841.5	841.5	847.7	848.6
30°	819.2	819.2	821.0	828.1	827.2
32.5°	795.2	796.0	799.6	805.8	806.7
35°	768.4	769.3	774.6	783.6	782.7
37.5°	739.9	742.6	748.8	758.6	758.6
40°	711.4	713.1	721.2	731.9	732.8
42.5°	679.3	683.7	692.6	705.1	703.3
45°	647.2	651.6	665.0	671.2	665.9
47.5°	613.3	618.7	632.0	632.9	615.1
50°	578.5	584.8	599.9	582.1	572.3
52.5°	538.4	550.0	563.4	538.4	532.2
55°	501.9	512.6	521.5	499.2	492.1
57.5°	460.9	475.1	468.9	458.2	449.3
60°	419.0	434.1	425.2	414.5	406.5
62.5°	376.2	393.1	384.2	373.5	366.4
65°	331.6	354.8	340.5	328.9	322.7
67.5°	289.7	312.0	295.1	286.1	279.9
70°	244.3	263.0	254.1	242.5	236.2
72.5°	199.7	213.9	211.3	198.8	194.3
75°	154.2	170.3	168.5	155.1	151.5
77.5°	115.9	131.0	125.7	115.0	110.5
80°	82.0	91.8	86.5	74.0	70.4
82.5°	49.9	57.9	49.0	41.9	38.3
85°	26.7	29.4	23.2	21.4	20.5
87.5°	9.8	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)