

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: P259038

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259038
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2757.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

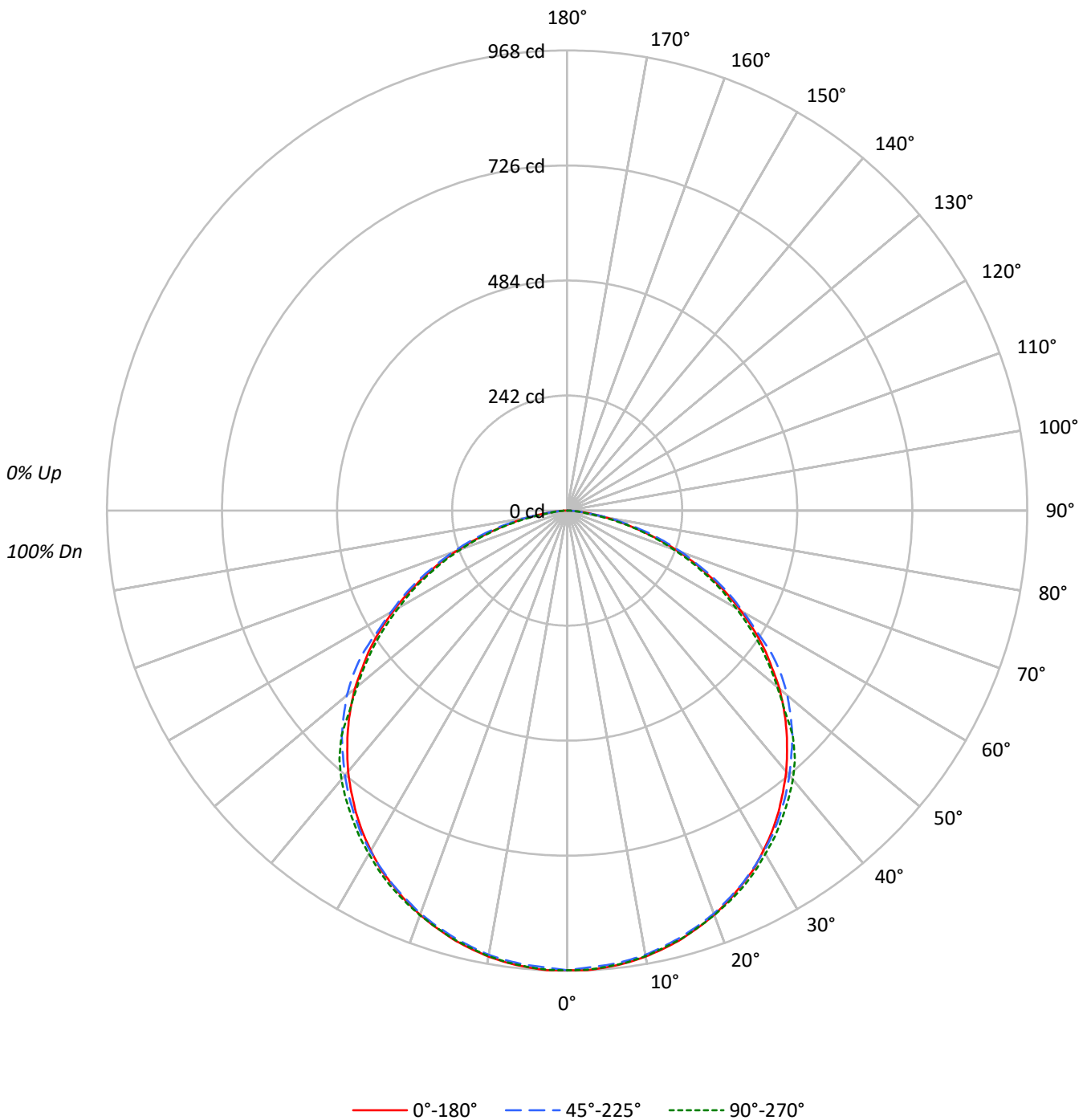
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2602	2602	2602
5°	2605	2592	2602
10°	2603	2593	2600
15°	2598	2586	2596
20°	2591	2584	2594
25°	2580	2577	2596
30°	2566	2572	2591
35°	2545	2565	2592
40°	2519	2554	2595
45°	2483	2551	2555
50°	2442	2532	2415
55°	2373	2466	2327
60°	2273	2307	2206
65°	2129	2186	2071
70°	1937	2015	1873
75°	1617	1765	1589
80°	1282	1351	1100
85°	834	722	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.3
10°-20°	262.9	9.5
20°-30°	401.3	14.6
30°-40°	489.3	17.7
40°-50°	512.3	18.6
50°-60°	455.8	16.5
60°-70°	336.3	12.2
70°-80°	173.8	6.3
80°-90°	33.8	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°	755.8	27.4
0°-40°	1245.1	45.2
0°-60°	2213.2	80.3
0°-90°	2757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	964	963	960	963	963	92
15°	933	932	928	932	932	263
25°	869	869	868	874	874	401
35°	775	776	781	790	789	484
45°	652	657	670	677	671	503
55°	506	517	526	503	496	451
65°	334	358	343	332	325	331
75°	156	172	170	156	153	168
85°	27	30	23	22	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.9	966.9	966.9	966.9	966.9
2.5°	967.8	966.9	962.4	966.9	966.9
5°	964.2	963.3	959.7	963.3	963.3
7.5°	959.7	958.8	955.2	958.8	958.8
10°	952.5	951.6	948.9	952.5	951.6
12.5°	943.5	943.5	939.0	943.5	941.7
15°	932.7	931.8	928.3	931.8	931.8
17.5°	919.3	918.4	915.7	920.2	918.4
20°	904.9	904.0	902.2	906.7	905.8
22.5°	887.8	887.8	885.1	890.5	890.5
25°	868.9	868.9	868.0	874.3	874.3
27.5°	850.1	848.3	848.3	854.6	855.5
30°	825.8	825.8	827.6	834.8	833.9
32.5°	801.5	802.4	806.0	812.3	813.2
35°	774.6	775.5	780.9	789.9	789.0
37.5°	745.8	748.5	754.8	764.7	764.7
40°	717.1	718.9	727.0	737.7	738.6
42.5°	684.7	689.2	698.2	710.8	709.0
45°	652.4	656.9	670.4	676.6	671.3
47.5°	618.2	623.6	637.1	638.0	620.0
50°	583.2	589.5	604.8	586.8	576.9
52.5°	542.8	554.4	567.9	542.8	536.5
55°	505.9	516.7	525.7	503.2	496.0
57.5°	464.6	479.0	472.7	461.9	452.9
60°	422.3	437.6	428.6	417.8	409.8
62.5°	379.2	396.3	387.3	376.5	369.3
65°	334.3	357.6	343.3	331.6	325.3
67.5°	292.0	314.5	297.4	288.4	282.2
70°	246.2	265.1	256.1	244.4	238.1
72.5°	201.3	215.7	213.0	200.4	195.9
75°	155.5	171.6	169.8	156.4	152.8
77.5°	116.8	132.1	126.7	115.9	111.4
80°	82.7	92.6	87.2	74.6	71.0
82.5°	50.3	58.4	49.4	42.2	38.6
85°	27.0	29.7	23.4	21.6	20.7
87.5°	9.9	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)