

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: P259033

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259033
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2502.0 lumens
Efficiency: N/A
Efficacy: 70.1 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

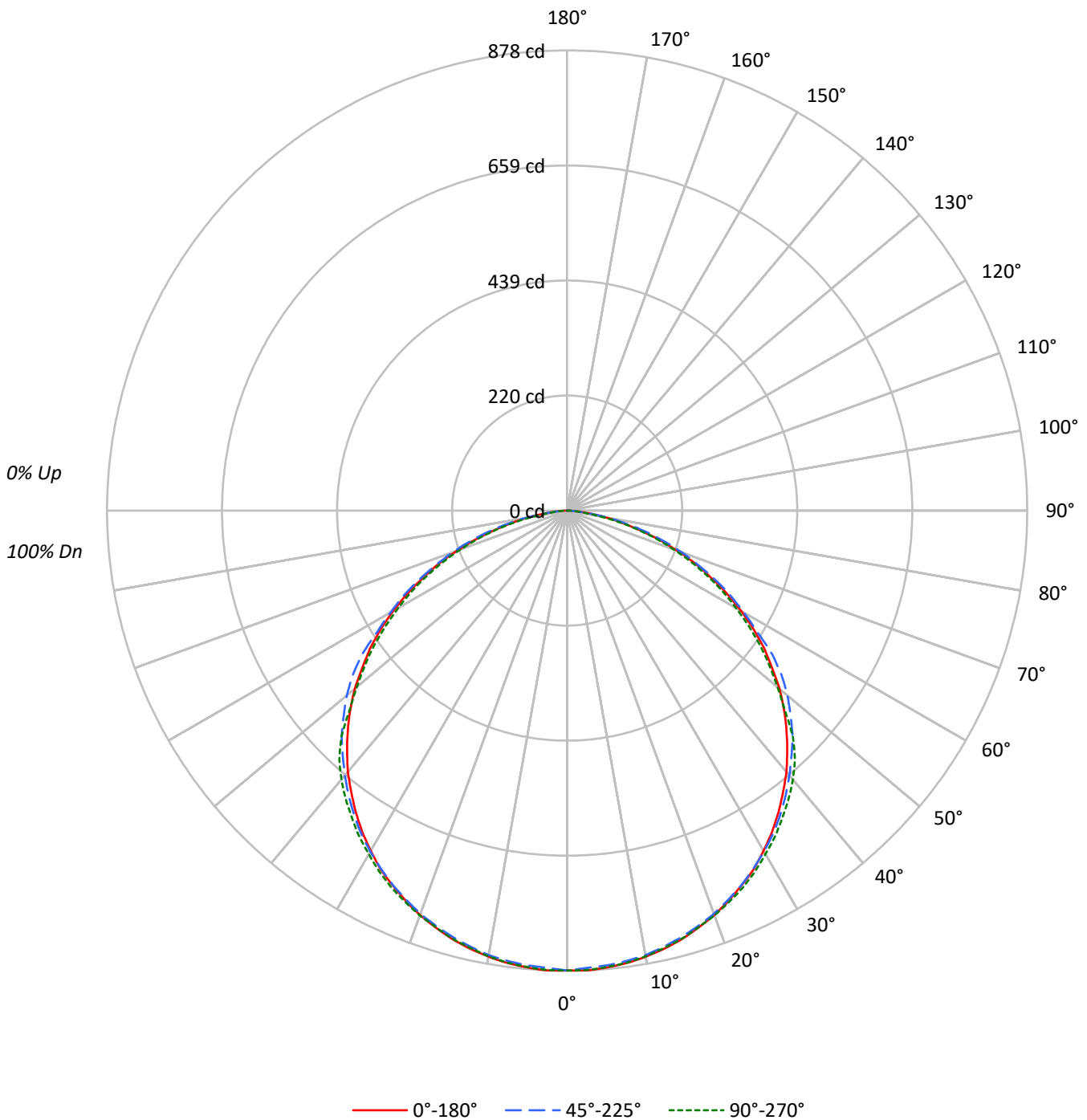
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2361	2361	2361
5°	2364	2353	2361
10°	2362	2353	2360
15°	2358	2347	2356
20°	2352	2344	2354
25°	2341	2339	2356
30°	2329	2334	2352
35°	2309	2328	2352
40°	2286	2317	2355
45°	2253	2315	2318
50°	2215	2298	2192
55°	2154	2238	2112
60°	2063	2094	2002
65°	1932	1983	1880
70°	1758	1828	1700
75°	1467	1602	1441
80°	1162	1226	998
85°	756	655	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.3
10°-20°	238.6	9.5
20°-30°	364.2	14.6
30°-40°	444.1	17.7
40°-50°	464.9	18.6
50°-60°	413.7	16.5
60°-70°	305.2	12.2
70°-80°	157.7	6.3
80°-90°	30.7	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°	685.9	27.4
0°-40°	1129.9	45.2
0°-60°	2008.5	80.3
0°-90°	2502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	875	874	871	874	874	83
15°	846	846	842	846	846	239
25°	789	789	788	794	794	364
35°	703	704	709	717	716	440
45°	592	596	608	614	609	457
55°	459	469	477	457	450	409
65°	303	325	312	301	295	301
75°	141	156	154	142	139	153
85°	24	27	21	20	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.5	877.5	877.5	877.5	877.5
2.5°	878.3	877.5	873.4	877.5	877.5
5°	875.0	874.2	870.9	874.2	874.2
7.5°	870.9	870.1	866.9	870.1	870.1
10°	864.4	863.6	861.2	864.4	863.6
12.5°	856.3	856.3	852.2	856.3	854.6
15°	846.5	845.7	842.4	845.7	845.7
17.5°	834.2	833.4	831.0	835.1	833.4
20°	821.2	820.4	818.7	822.8	822.0
22.5°	805.7	805.7	803.3	808.1	808.1
25°	788.6	788.6	787.8	793.5	793.5
27.5°	771.4	769.8	769.8	775.5	776.3
30°	749.4	749.4	751.1	757.6	756.8
32.5°	727.4	728.2	731.5	737.2	738.0
35°	702.9	703.8	708.7	716.8	716.0
37.5°	676.9	679.3	685.0	694.0	694.0
40°	650.8	652.4	659.7	669.5	670.3
42.5°	621.4	625.5	633.6	645.0	643.4
45°	592.0	596.1	608.4	614.1	609.2
47.5°	561.1	565.9	578.2	579.0	562.7
50°	529.2	535.0	548.8	532.5	523.5
52.5°	492.6	503.2	515.4	492.6	486.8
55°	459.1	468.9	477.1	456.7	450.1
57.5°	421.6	434.7	428.9	419.2	411.0
60°	383.3	397.1	389.0	379.2	371.9
62.5°	344.1	359.6	351.5	341.7	335.2
65°	303.4	324.6	311.5	300.9	295.2
67.5°	265.0	285.4	269.9	261.8	256.1
70°	223.4	240.6	232.4	221.8	216.1
72.5°	182.7	195.7	193.3	181.9	177.8
75°	141.1	155.8	154.1	141.9	138.6
77.5°	106.0	119.9	115.0	105.2	101.1
80°	75.0	84.0	79.1	67.7	64.4
82.5°	45.7	53.0	44.9	38.3	35.1
85°	24.5	26.9	21.2	19.6	18.8
87.5°	9.0	9.0	9.0	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)