

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: P258895

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258895
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-L83050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2773.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

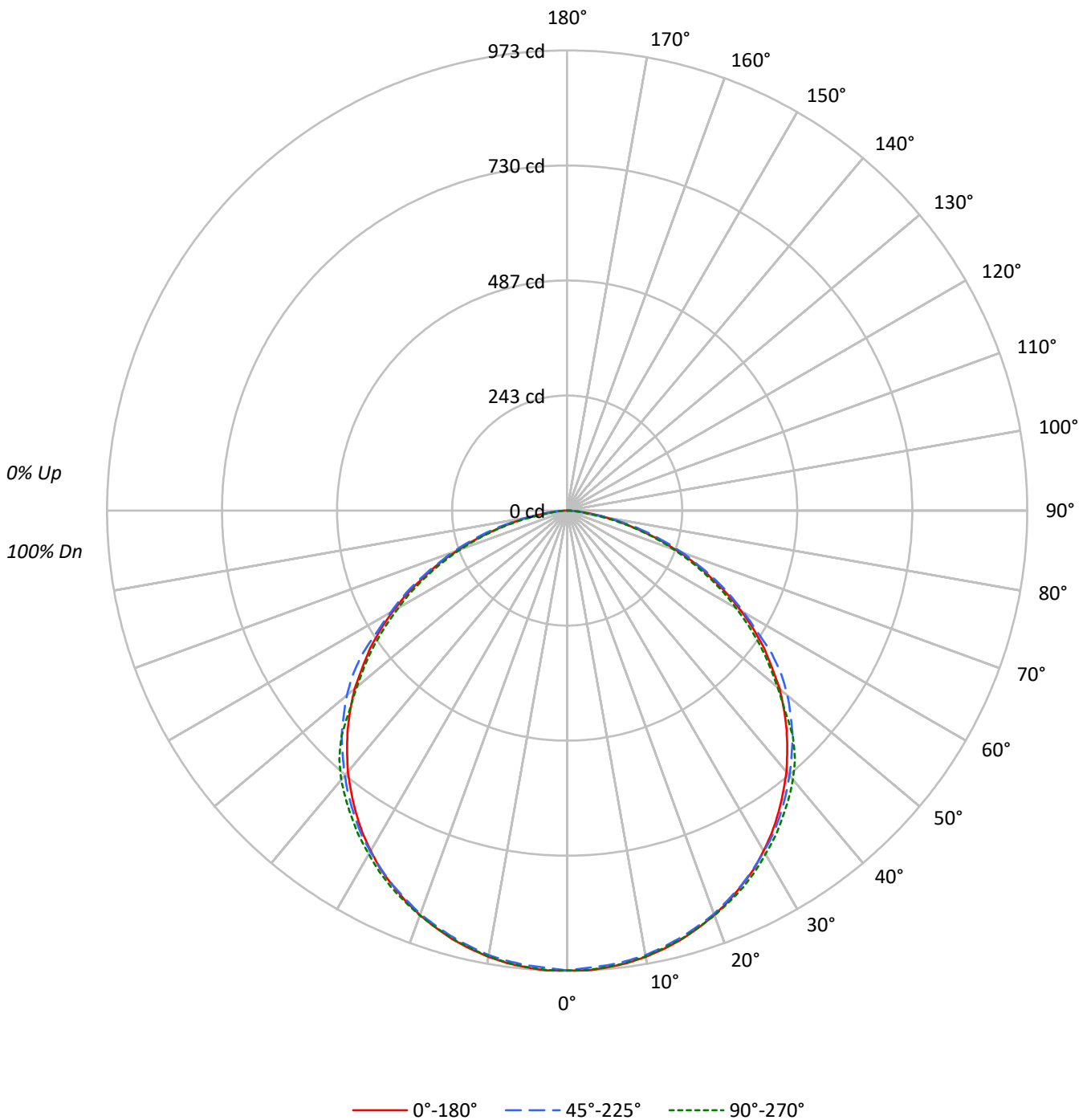
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2617	2617	2617
5°	2620	2608	2617
10°	2618	2608	2615
15°	2614	2601	2611
20°	2606	2599	2609
25°	2595	2592	2611
30°	2581	2586	2606
35°	2559	2580	2607
40°	2533	2569	2610
45°	2497	2566	2569
50°	2456	2547	2429
55°	2387	2480	2341
60°	2286	2320	2218
65°	2141	2199	2083
70°	1948	2027	1884
75°	1626	1776	1597
80°	1289	1359	1106
85°	837	726	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.3
10°-20°	264.4	9.5
20°-30°	403.6	14.6
30°-40°	492.1	17.7
40°-50°	515.3	18.6
50°-60°	458.4	16.5
60°-70°	338.2	12.2
70°-80°	174.8	6.3
80°-90°	33.9	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°	760.1	27.4
0°-40°	1252.3	45.2
0°-60°	2226.0	80.3
0°-90°	2773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	970	969	965	969	969	92
15°	938	937	934	937	937	265
25°	874	874	873	879	879	403
35°	779	780	785	794	794	487
45°	656	661	674	681	675	506
55°	509	520	529	506	499	453
65°	336	360	345	334	327	333
75°	156	173	171	157	154	169
85°	27	30	24	22	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.5	972.5	972.5	972.5	972.5
2.5°	973.4	972.5	968.0	972.5	972.5
5°	969.8	968.9	965.3	968.9	968.9
7.5°	965.3	964.4	960.8	964.4	964.4
10°	958.0	957.1	954.4	958.0	957.1
12.5°	949.0	949.0	944.5	949.0	947.2
15°	938.2	937.3	933.6	937.3	937.3
17.5°	924.6	923.7	921.0	925.5	923.7
20°	910.1	909.2	907.4	911.9	911.0
22.5°	893.0	893.0	890.3	895.7	895.7
25°	874.0	874.0	873.1	879.4	879.4
27.5°	855.0	853.2	853.2	859.5	860.4
30°	830.6	830.6	832.4	839.6	838.7
32.5°	806.2	807.1	810.7	817.0	817.9
35°	779.1	780.0	785.4	794.5	793.5
37.5°	750.2	752.9	759.2	769.1	769.1
40°	721.2	723.0	731.2	742.0	742.9
42.5°	688.7	693.2	702.3	714.9	713.1
45°	656.2	660.7	674.2	680.6	675.1
47.5°	621.8	627.2	640.8	641.7	623.6
50°	586.6	592.9	608.3	590.2	580.2
52.5°	545.9	557.7	571.2	545.9	539.6
55°	508.8	519.7	528.7	506.1	498.9
57.5°	467.3	481.7	475.4	464.6	455.5
60°	424.8	440.2	431.1	420.3	412.1
62.5°	381.4	398.6	389.5	378.7	371.5
65°	336.2	359.7	345.3	333.5	327.2
67.5°	293.7	316.3	299.2	290.1	283.8
70°	247.6	266.6	257.6	245.8	239.5
72.5°	202.5	216.9	214.2	201.6	197.0
75°	156.4	172.6	170.8	157.3	153.6
77.5°	117.5	132.9	127.4	116.6	112.1
80°	83.2	93.1	87.7	75.0	71.4
82.5°	50.6	58.7	49.7	42.5	38.9
85°	27.1	29.8	23.5	21.7	20.8
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)