

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: P258893

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258893
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.0 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

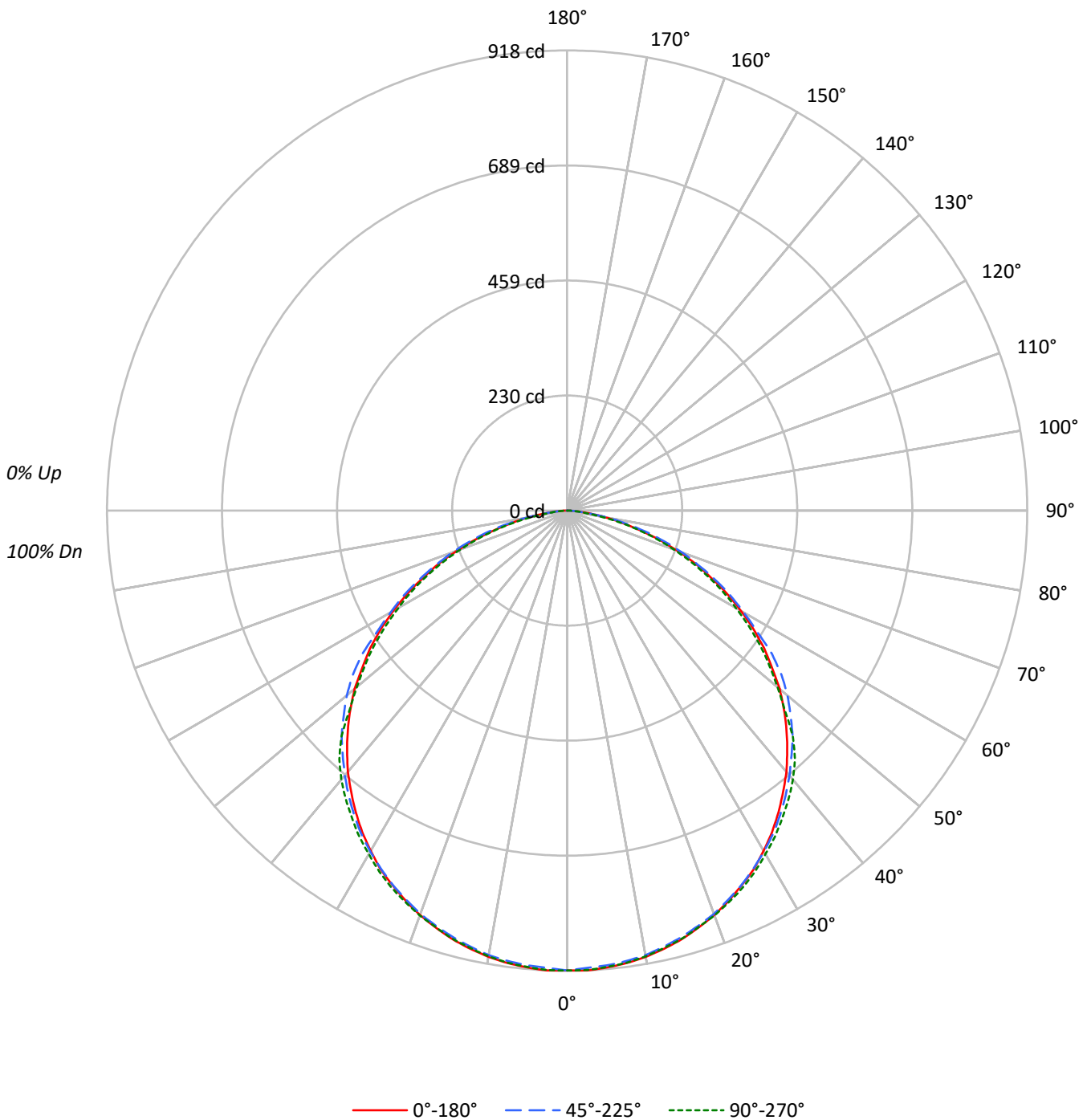
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2469	2469	2469
5°	2471	2460	2469
10°	2470	2460	2467
15°	2466	2454	2463
20°	2459	2452	2461
25°	2448	2446	2463
30°	2435	2440	2459
35°	2415	2434	2459
40°	2390	2423	2462
45°	2356	2421	2424
50°	2317	2402	2292
55°	2252	2340	2208
60°	2157	2189	2093
65°	2020	2074	1966
70°	1838	1912	1777
75°	1534	1675	1507
80°	1215	1282	1044
85°	790	685	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.3
10°-20°	249.5	9.5
20°-30°	380.8	14.6
30°-40°	464.3	17.7
40°-50°	486.1	18.6
50°-60°	432.5	16.5
60°-70°	319.1	12.2
70°-80°	164.9	6.3
80°-90°	32.0	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°	717.1	27.4
0°-40°	1181.4	45.2
0°-60°	2100.0	80.3
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	915	914	911	914	914	87
15°	885	884	881	884	884	250
25°	824	824	824	830	830	380
35°	735	736	741	750	749	460
45°	619	623	636	642	637	477
55°	480	490	499	478	471	428
65°	317	339	326	315	309	314
75°	148	163	161	148	145	159
85°	26	28	22	20	20	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.4	917.4	917.4	917.4	917.4
2.5°	918.3	917.4	913.2	917.4	917.4
5°	914.9	914.0	910.6	914.0	914.0
7.5°	910.6	909.8	906.4	909.8	909.8
10°	903.8	902.9	900.4	903.8	902.9
12.5°	895.3	895.3	891.0	895.3	893.6
15°	885.0	884.2	880.8	884.2	884.2
17.5°	872.3	871.4	868.8	873.1	871.4
20°	858.6	857.8	856.1	860.3	859.5
22.5°	842.4	842.4	839.9	845.0	845.0
25°	824.5	824.5	823.7	829.6	829.6
27.5°	806.6	804.9	804.9	810.9	811.7
30°	783.6	783.6	785.3	792.1	791.3
32.5°	760.6	761.4	764.8	770.8	771.6
35°	735.0	735.8	740.9	749.5	748.6
37.5°	707.7	710.2	716.2	725.6	725.6
40°	680.4	682.1	689.8	700.0	700.9
42.5°	649.7	654.0	662.5	674.4	672.7
45°	619.0	623.3	636.1	642.0	636.9
47.5°	586.6	591.7	604.5	605.4	588.3
50°	553.4	559.3	573.8	556.8	547.4
52.5°	515.0	526.1	538.9	515.0	509.0
55°	480.0	490.3	498.8	477.5	470.7
57.5°	440.8	454.5	448.5	438.3	429.7
60°	400.7	415.2	406.7	396.5	388.8
62.5°	359.8	376.0	367.5	357.3	350.4
65°	317.2	339.4	325.7	314.6	308.7
67.5°	277.1	298.4	282.2	273.7	267.7
70°	233.6	251.5	243.0	231.9	225.9
72.5°	191.0	204.6	202.1	190.1	185.9
75°	147.5	162.9	161.1	148.4	144.9
77.5°	110.8	125.3	120.2	110.0	105.7
80°	78.4	87.8	82.7	70.8	67.4
82.5°	47.7	55.4	46.9	40.1	36.7
85°	25.6	28.1	22.2	20.5	19.6
87.5°	9.4	9.4	9.4	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)