

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: P259065

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659.0 lumens
Efficiency: N/A
Efficacy: 74.8 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

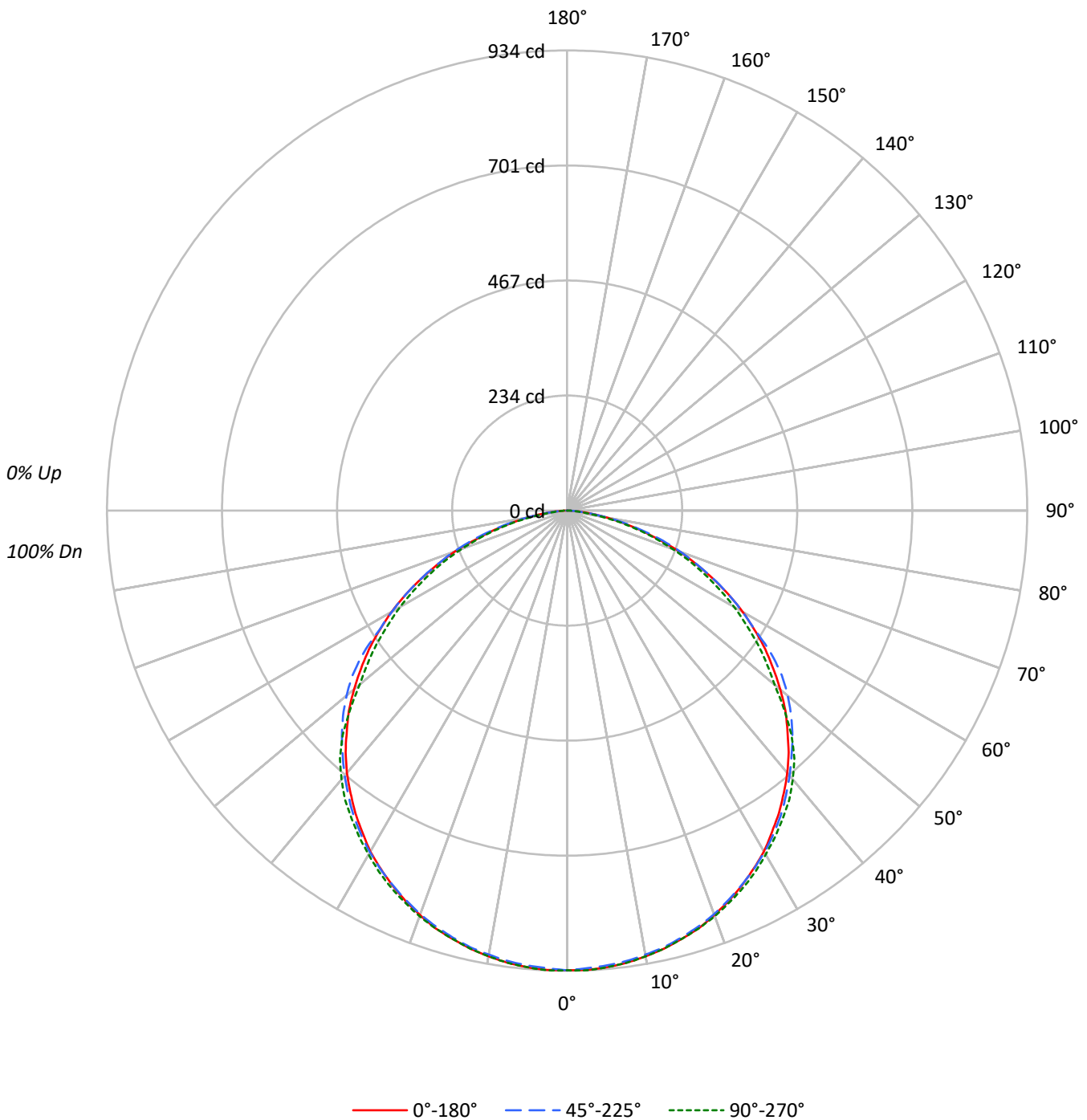
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2511	2511	2511
5°	2513	2504	2513
10°	2510	2501	2510
15°	2507	2499	2507
20°	2502	2497	2509
25°	2492	2490	2508
30°	2482	2488	2505
35°	2462	2483	2506
40°	2442	2468	2503
45°	2406	2461	2451
50°	2364	2447	2300
55°	2303	2371	2214
60°	2215	2210	2109
65°	2076	2087	1973
70°	1906	1928	1786
75°	1601	1676	1526
80°	1271	1299	1075
85°	834	722	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.3
10°-20°	254.0	9.6
20°-30°	387.8	14.6
30°-40°	473.2	17.8
40°-50°	494.8	18.6
50°-60°	438.0	16.5
60°-70°	322.6	12.1
70°-80°	167.0	6.3
80°-90°	33.3	1.3
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°	730.2	27.5
0°-40°	1203.3	45.3
0°-60°	2136.2	80.3
0°-90°	2659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	930	930	927	930	930	88
15°	900	900	897	901	900	254
25°	839	839	838	844	845	387
35°	749	751	756	763	763	469
45°	632	638	647	652	644	488
55°	491	501	505	479	472	438
65°	326	346	328	315	310	323
75°	154	165	161	151	147	164
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.1	933.1	933.1	933.1	933.1
2.5°	933.1	933.1	929.5	933.1	934.0
5°	930.4	930.4	926.8	930.4	930.4
7.5°	925.9	925.0	922.3	925.9	925.9
10°	918.7	918.7	915.1	919.6	918.7
12.5°	910.6	909.7	907.9	911.5	910.6
15°	899.8	899.8	897.1	900.7	899.8
17.5°	889.0	888.1	885.4	889.0	889.0
20°	873.6	872.7	871.8	875.4	876.3
22.5°	857.4	856.5	855.6	861.0	861.0
25°	839.4	839.4	838.5	843.9	844.8
27.5°	819.6	819.6	820.5	827.7	826.8
30°	798.9	798.9	800.7	806.1	806.1
32.5°	773.7	775.5	779.1	785.4	785.4
35°	749.4	751.2	755.7	762.9	762.9
37.5°	722.3	725.0	729.5	738.5	740.3
40°	695.3	697.1	702.5	712.4	712.4
42.5°	665.6	667.4	674.6	684.5	682.7
45°	632.3	637.7	646.7	652.1	644.0
47.5°	600.7	604.3	617.0	610.7	597.1
50°	564.7	571.9	584.5	562.0	549.4
52.5°	527.8	535.9	549.4	517.9	510.7
55°	490.9	500.8	505.3	479.2	471.9
57.5°	451.2	462.0	453.0	437.7	430.5
60°	411.6	424.2	410.7	396.3	391.8
62.5°	370.2	384.6	369.3	356.7	350.4
65°	326.0	345.9	327.8	315.2	309.8
67.5°	282.8	303.5	284.6	273.8	270.2
70°	242.3	254.0	245.0	234.2	227.0
72.5°	193.6	205.4	203.6	191.8	187.3
75°	154.0	164.8	161.2	151.3	146.8
77.5°	114.4	126.1	122.5	110.8	109.0
80°	82.0	90.1	83.8	73.0	69.4
82.5°	51.3	57.6	49.5	41.4	39.6
85°	27.0	28.8	23.4	20.7	19.8
87.5°	9.0	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)