

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: P258543

Luminaire Tested: **14CZ-LD5-25-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L83050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2583.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

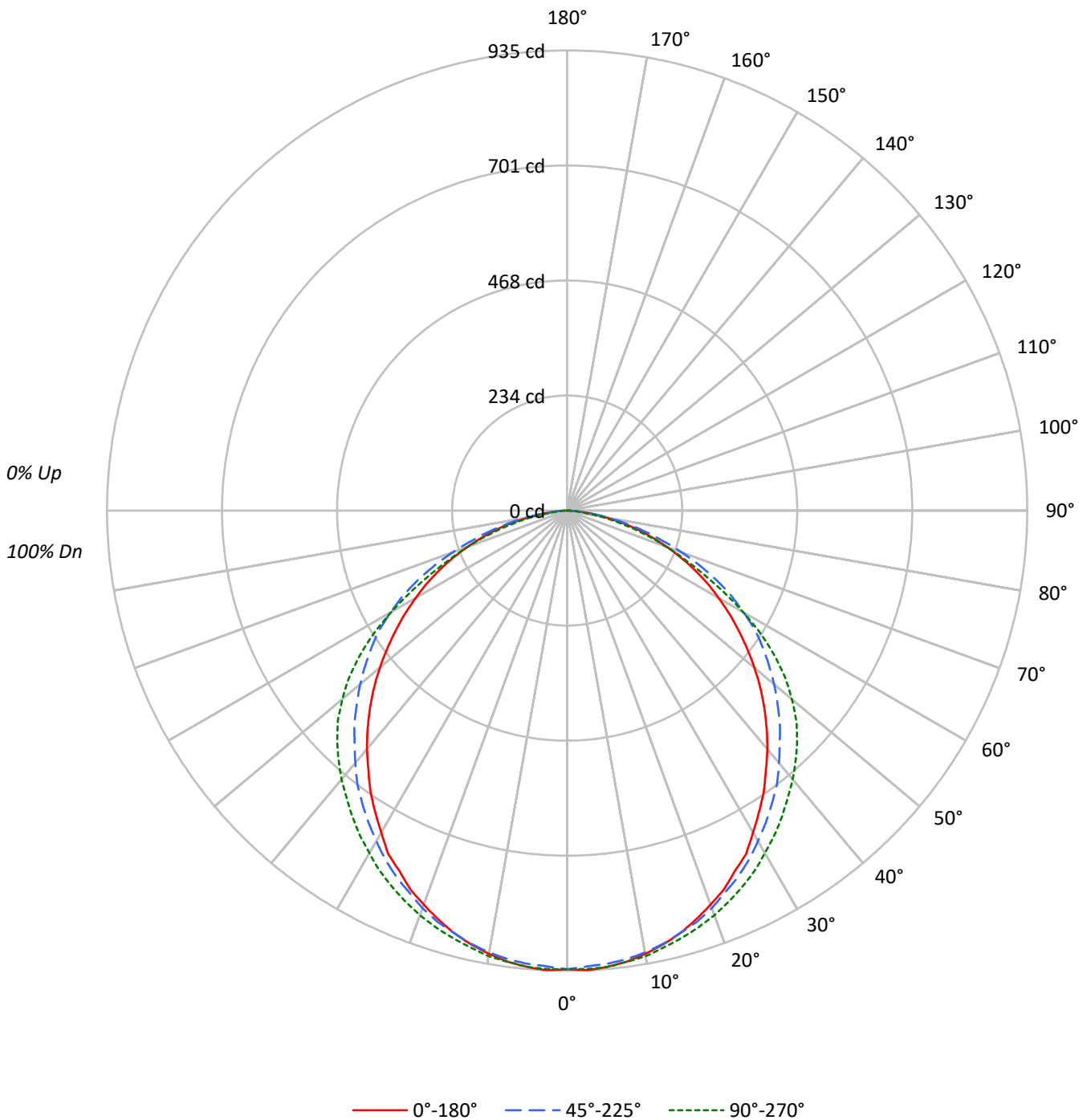
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2508	2508	2508
5°	2515	2497	2515
10°	2498	2491	2512
15°	2476	2476	2505
20°	2440	2461	2505
25°	2397	2439	2503
30°	2346	2410	2497
35°	2288	2384	2497
40°	2223	2353	2505
45°	2157	2326	2515
50°	2079	2298	2495
55°	1995	2276	2414
60°	1912	2228	2221
65°	1824	2132	1946
70°	1693	1943	1683
75°	1536	1695	1390
80°	1224	1342	1026
85°	865	747	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.4
10°-20°	252.0	9.8
20°-30°	379.9	14.7
30°-40°	455.3	17.6
40°-50°	472.5	18.3
50°-60°	426.2	16.5
60°-70°	310.9	12.0
70°-80°	163.1	6.3
80°-90°	34.8	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°	720.0	27.9
0°-40°	1175.4	45.5
0°-60°	2074.2	80.3
0°-90°	2583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	931	928	924	931	931	88
15°	889	889	889	899	899	250
25°	807	811	821	839	843	373
35°	697	704	726	753	760	435
45°	567	578	611	648	661	437
55°	425	441	485	517	514	381
65°	286	303	335	322	306	283
75°	148	168	163	141	134	155
85°	28	34	24	20	19	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.1	932.1	932.1	932.1	932.1
2.5°	934.7	932.1	927.0	932.1	932.1
5°	930.9	928.3	924.5	930.9	930.9
7.5°	924.5	921.9	919.4	925.8	924.5
10°	914.3	913.0	911.8	919.4	919.4
12.5°	902.8	902.8	901.6	910.5	909.2
15°	888.8	888.8	888.8	899.0	899.0
17.5°	871.0	873.6	876.1	887.6	887.6
20°	851.9	854.5	859.5	873.6	874.8
22.5°	832.8	834.1	839.2	855.7	859.5
25°	807.3	811.2	821.3	839.2	843.0
27.5°	787.0	788.2	799.7	820.1	825.2
30°	755.1	764.0	775.5	798.4	803.5
32.5°	725.8	733.5	751.3	775.5	783.1
35°	696.6	704.2	725.8	752.6	760.2
37.5°	663.4	674.9	700.4	727.1	736.0
40°	632.9	643.1	669.8	702.9	713.1
42.5°	599.8	610.0	639.2	676.2	687.6
45°	566.7	578.1	611.2	648.2	660.9
47.5°	532.3	545.0	579.4	620.1	631.6
50°	496.6	510.6	548.8	590.9	596.0
52.5°	461.0	476.3	517.0	553.9	559.0
55°	425.3	440.6	485.2	517.0	514.5
57.5°	390.9	407.5	453.3	469.9	467.3
60°	355.3	373.1	413.9	421.5	412.6
62.5°	322.2	338.7	376.9	370.6	359.1
65°	286.5	303.1	334.9	322.2	305.6
67.5°	250.9	271.2	291.6	270.0	257.2
70°	215.2	238.1	247.0	225.4	213.9
72.5°	180.8	205.0	202.5	180.8	173.2
75°	147.7	168.1	163.0	141.3	133.7
77.5°	112.1	135.0	123.5	105.7	99.3
80°	79.0	99.3	86.6	71.3	66.2
82.5°	52.2	66.2	53.5	42.0	38.2
85°	28.0	34.4	24.2	20.4	19.1
87.5°	11.5	10.2	8.9	8.9	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)