

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: P258614

Luminaire Tested: **14CZ-LD5-29-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258614
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-LD5-29-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2698.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

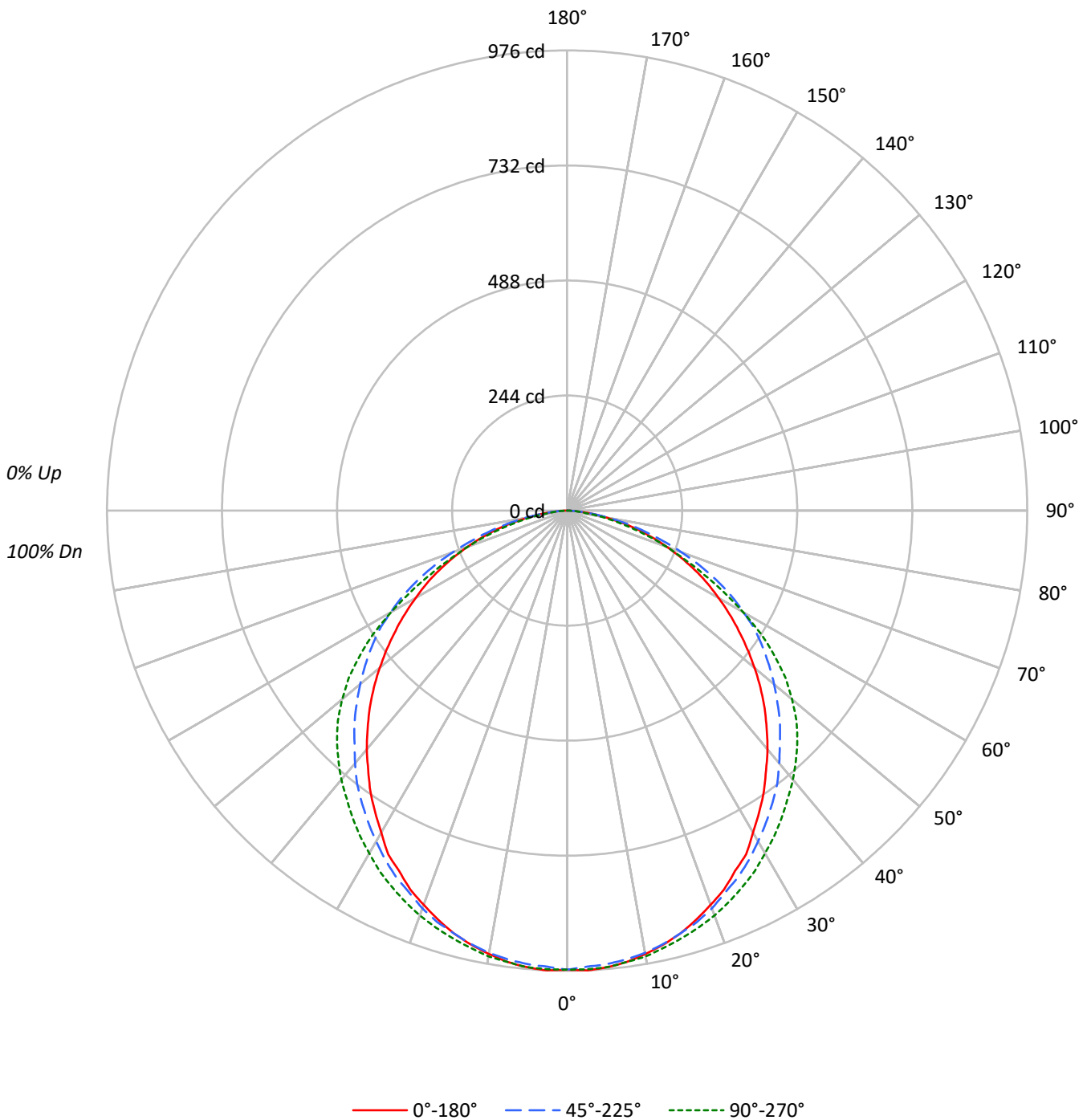
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2620	2620	2620
5°	2626	2609	2626
10°	2610	2602	2624
15°	2586	2586	2616
20°	2548	2571	2617
25°	2504	2547	2614
30°	2451	2517	2608
35°	2390	2491	2609
40°	2322	2458	2617
45°	2253	2430	2627
50°	2171	2400	2606
55°	2084	2378	2521
60°	1997	2327	2320
65°	1906	2227	2032
70°	1769	2030	1758
75°	1604	1771	1452
80°	1278	1401	1072
85°	905	781	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.4
10°-20°	263.2	9.8
20°-30°	396.8	14.7
30°-40°	475.6	17.6
40°-50°	493.6	18.3
50°-60°	445.2	16.5
60°-70°	324.8	12.0
70°-80°	170.4	6.3
80°-90°	36.3	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°	752.1	27.9
0°-40°	1227.7	45.5
0°-60°	2166.5	80.3
0°-90°	2698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	972	970	966	972	972	92
15°	928	928	928	939	939	262
25°	843	847	858	876	880	389
35°	728	736	758	786	794	454
45°	592	604	638	677	690	456
55°	444	460	507	540	537	398
65°	299	317	350	336	319	296
75°	154	176	170	148	140	162
85°	29	36	25	21	20	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.6	973.6	973.6	973.6	973.6
2.5°	976.3	973.6	968.3	973.6	973.6
5°	972.3	969.6	965.7	972.3	972.3
7.5°	965.7	963.0	960.3	967.0	965.7
10°	955.0	953.7	952.4	960.3	960.3
12.5°	943.0	943.0	941.7	951.0	949.7
15°	928.4	928.4	928.4	939.0	939.0
17.5°	909.8	912.4	915.1	927.1	927.1
20°	889.8	892.5	897.8	912.4	913.8
22.5°	869.9	871.2	876.5	893.8	897.8
25°	843.3	847.3	857.9	876.5	880.5
27.5°	822.0	823.3	835.3	856.6	861.9
30°	788.7	798.1	810.0	834.0	839.3
32.5°	758.2	766.1	784.8	810.0	818.0
35°	727.6	735.5	758.2	786.1	794.1
37.5°	693.0	705.0	731.6	759.5	768.8
40°	661.1	671.7	699.6	734.2	744.9
42.5°	626.5	637.1	667.7	706.3	718.3
45°	591.9	603.9	638.4	677.0	690.3
47.5°	556.0	569.3	605.2	647.8	659.7
50°	518.7	533.4	573.3	617.2	622.5
52.5°	481.5	497.5	540.0	578.6	583.9
55°	444.3	460.2	506.8	540.0	537.4
57.5°	408.3	425.6	473.5	490.8	488.1
60°	371.1	389.7	432.3	440.3	431.0
62.5°	336.5	353.8	393.7	387.1	375.1
65°	299.3	316.6	349.8	336.5	319.2
67.5°	262.0	283.3	304.6	282.0	268.7
70°	224.8	248.7	258.0	235.4	223.5
72.5°	188.9	214.1	211.5	188.9	180.9
75°	154.3	175.6	170.3	147.6	139.7
77.5°	117.0	141.0	129.0	110.4	103.7
80°	82.5	103.7	90.4	74.5	69.2
82.5°	54.5	69.2	55.9	43.9	39.9
85°	29.3	35.9	25.3	21.3	20.0
87.5°	12.0	10.6	9.3	9.3	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)