

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: P258677

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258677
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-LD5-35-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2770.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

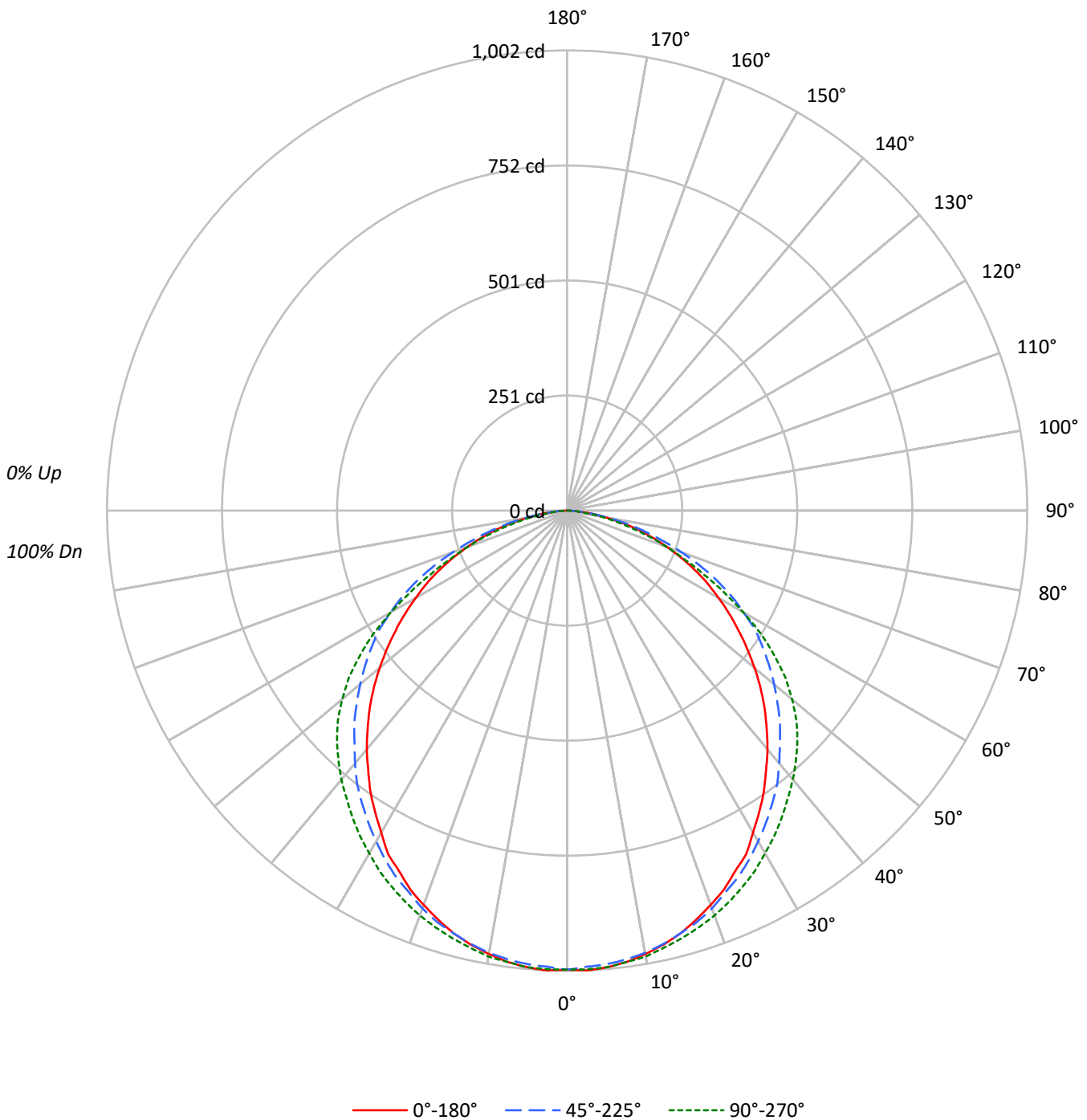
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2690	2690	2690
5°	2696	2678	2696
10°	2679	2672	2694
15°	2656	2656	2686
20°	2616	2640	2687
25°	2571	2615	2684
30°	2516	2584	2678
35°	2454	2557	2678
40°	2384	2523	2686
45°	2313	2495	2697
50°	2230	2464	2676
55°	2140	2441	2588
60°	2051	2389	2382
65°	1957	2287	2087
70°	1816	2084	1805
75°	1647	1817	1491
80°	1313	1440	1100
85°	926	800	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	270.2	9.8
20°-30°	407.4	14.7
30°-40°	488.3	17.6
40°-50°	506.8	18.3
50°-60°	457.1	16.5
60°-70°	333.4	12.0
70°-80°	174.9	6.3
80°-90°	37.3	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°	772.2	27.9
0°-40°	1260.5	45.5
0°-60°	2224.3	80.3
0°-90°	2770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	998	996	991	998	998	95
15°	953	953	953	964	964	269
25°	866	870	881	900	904	400
35°	747	755	778	807	815	467
45°	608	620	656	695	709	468
55°	456	472	520	554	552	408
65°	307	325	359	346	328	304
75°	158	180	175	152	143	166
85°	30	37	26	22	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.6	999.6	999.6	999.6	999.6
2.5°	1002.3	999.6	994.2	999.6	999.6
5°	998.2	995.5	991.4	998.2	998.2
7.5°	991.4	988.7	986.0	992.8	991.4
10°	980.5	979.1	977.8	986.0	986.0
12.5°	968.2	968.2	966.8	976.4	975.0
15°	953.2	953.2	953.2	964.1	964.1
17.5°	934.1	936.8	939.5	951.8	951.8
20°	913.6	916.3	921.8	936.8	938.2
22.5°	893.1	894.5	899.9	917.7	921.8
25°	865.8	869.9	880.8	899.9	904.0
27.5°	843.9	845.3	857.6	879.4	884.9
30°	809.8	819.4	831.6	856.2	861.7
32.5°	778.4	786.6	805.7	831.6	839.8
35°	747.0	755.2	778.4	807.1	815.3
37.5°	711.5	723.8	751.1	779.8	789.3
40°	678.7	689.6	718.3	753.8	764.7
42.5°	643.2	654.1	685.5	725.1	737.4
45°	607.7	620.0	655.5	695.1	708.7
47.5°	570.8	584.5	621.3	665.0	677.3
50°	532.6	547.6	588.6	633.6	639.1
52.5°	494.3	510.7	554.4	594.0	599.5
55°	456.1	472.5	520.3	554.4	551.7
57.5°	419.2	437.0	486.2	503.9	501.2
60°	381.0	400.1	443.8	452.0	442.5
62.5°	345.5	363.2	404.2	397.4	385.1
65°	307.3	325.0	359.2	345.5	327.7
67.5°	269.0	290.9	312.7	289.5	275.8
70°	230.8	255.4	264.9	241.7	229.4
72.5°	193.9	219.9	217.1	193.9	185.7
75°	158.4	180.3	174.8	151.6	143.4
77.5°	120.2	144.8	132.5	113.3	106.5
80°	84.7	106.5	92.9	76.5	71.0
82.5°	56.0	71.0	57.4	45.1	41.0
85°	30.0	36.9	25.9	21.8	20.5
87.5°	12.3	10.9	9.6	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)