

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: P259154

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259154  
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-LD5-20-SQP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1066.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 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

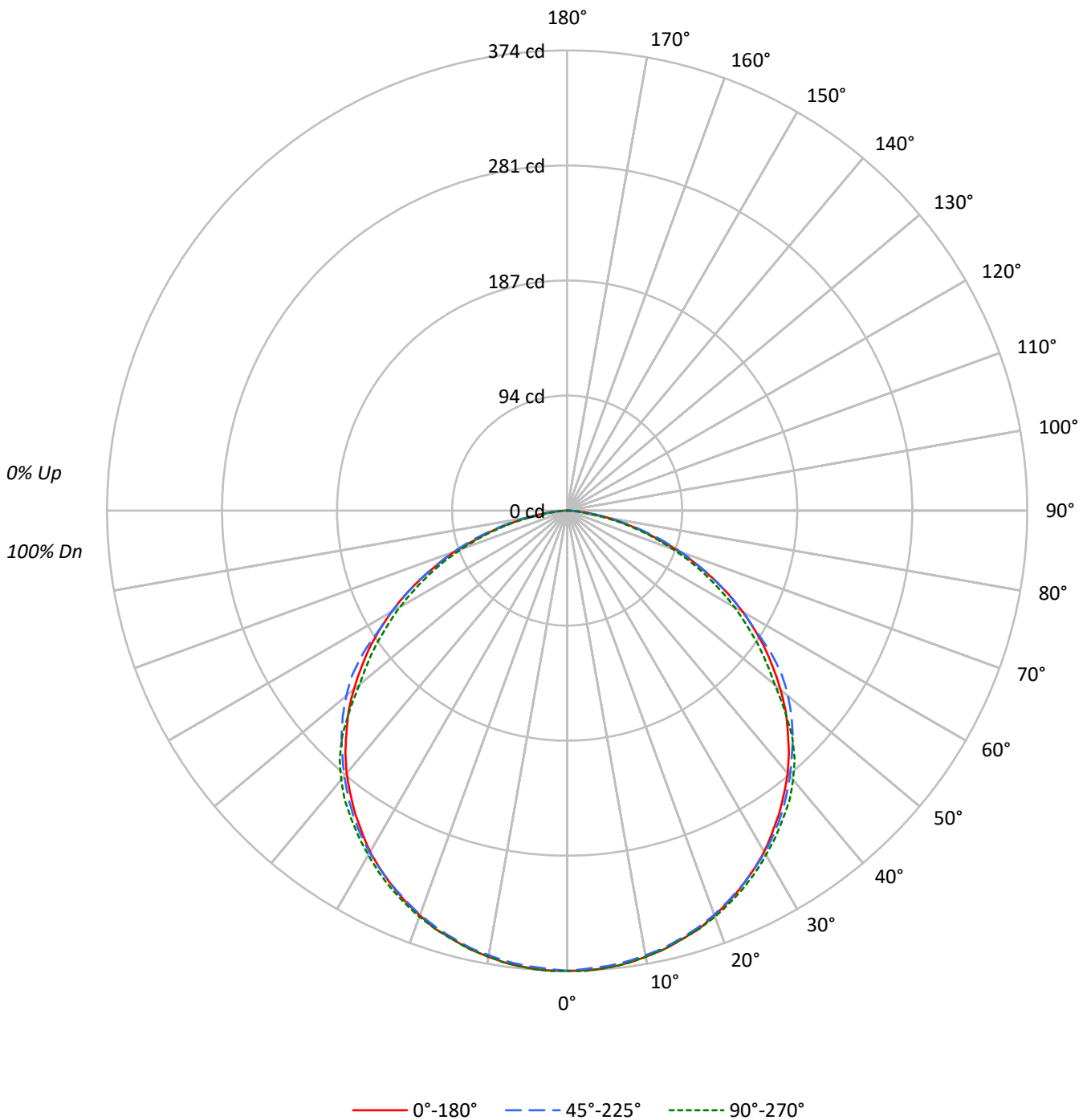
Input Watts (W): 15.345  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1007	1007	1007
5°	1008	1004	1008
10°	1006	1003	1006
15°	1005	1002	1005
20°	1003	1001	1006
25°	999	998	1006
30°	995	997	1004
35°	987	995	1005
40°	979	989	1003
45°	965	987	983
50°	948	981	922
55°	923	951	888
60°	888	886	846
65°	832	837	791
70°	764	773	716
75°	642	672	612
80°	510	521	431
85°	333	290	244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.4	3.3
10°-20°	101.8	9.6
20°-30°	155.5	14.6
30°-40°	189.7	17.8
40°-50°	198.4	18.6
50°-60°	175.6	16.5
60°-70°	129.3	12.1
70°-80°	67.0	6.3
80°-90°	13.3	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°	292.7	27.5
0°-40°	482.4	45.3
0°-60°	856.4	80.3
0°-90°	1066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	373	373	372	373	373	35
15°	361	361	360	361	361	102
25°	336	336	336	338	339	155
35°	300	301	303	306	306	188
45°	254	256	259	261	258	196
55°	197	201	203	192	189	176
65°	131	139	131	126	124	129
75°	62	66	65	61	59	66
85°	11	12	9	8	8	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	374.1	374.1	374.1	374.1	374.1
2.5°	374.1	374.1	372.6	374.1	374.4
5°	373.0	373.0	371.6	373.0	373.0
7.5°	371.2	370.8	369.7	371.2	371.2
10°	368.3	368.3	366.9	368.7	368.3
12.5°	365.1	364.7	364.0	365.4	365.1
15°	360.7	360.7	359.6	361.1	360.7
17.5°	356.4	356.0	354.9	356.4	356.4
20°	350.2	349.9	349.5	351.0	351.3
22.5°	343.7	343.4	343.0	345.2	345.2
25°	336.5	336.5	336.2	338.3	338.7
27.5°	328.6	328.6	328.9	331.8	331.5
30°	320.3	320.3	321.0	323.2	323.2
32.5°	310.2	310.9	312.3	314.9	314.9
35°	300.4	301.1	302.9	305.8	305.8
37.5°	289.6	290.7	292.5	296.1	296.8
40°	278.8	279.5	281.6	285.6	285.6
42.5°	266.8	267.6	270.4	274.4	273.7
45°	253.5	255.6	259.3	261.4	258.2
47.5°	240.8	242.3	247.3	244.8	239.4
50°	226.4	229.3	234.3	225.3	220.3
52.5°	211.6	214.8	220.3	207.6	204.7
55°	196.8	200.8	202.6	192.1	189.2
57.5°	180.9	185.2	181.6	175.5	172.6
60°	165.0	170.1	164.7	158.9	157.1
62.5°	148.4	154.2	148.0	143.0	140.5
65°	130.7	138.7	131.4	126.4	124.2
67.5°	113.4	121.7	114.1	109.8	108.3
70°	97.1	101.8	98.2	93.9	91.0
72.5°	77.6	82.3	81.6	76.9	75.1
75°	61.7	66.1	64.6	60.7	58.9
77.5°	45.9	50.6	49.1	44.4	43.7
80°	32.9	36.1	33.6	29.2	27.8
82.5°	20.6	23.1	19.9	16.6	15.9
85°	10.8	11.6	9.4	8.3	7.9
87.5°	3.6	4.0	4.0	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)