

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: P259155

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259155  
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-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1108.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

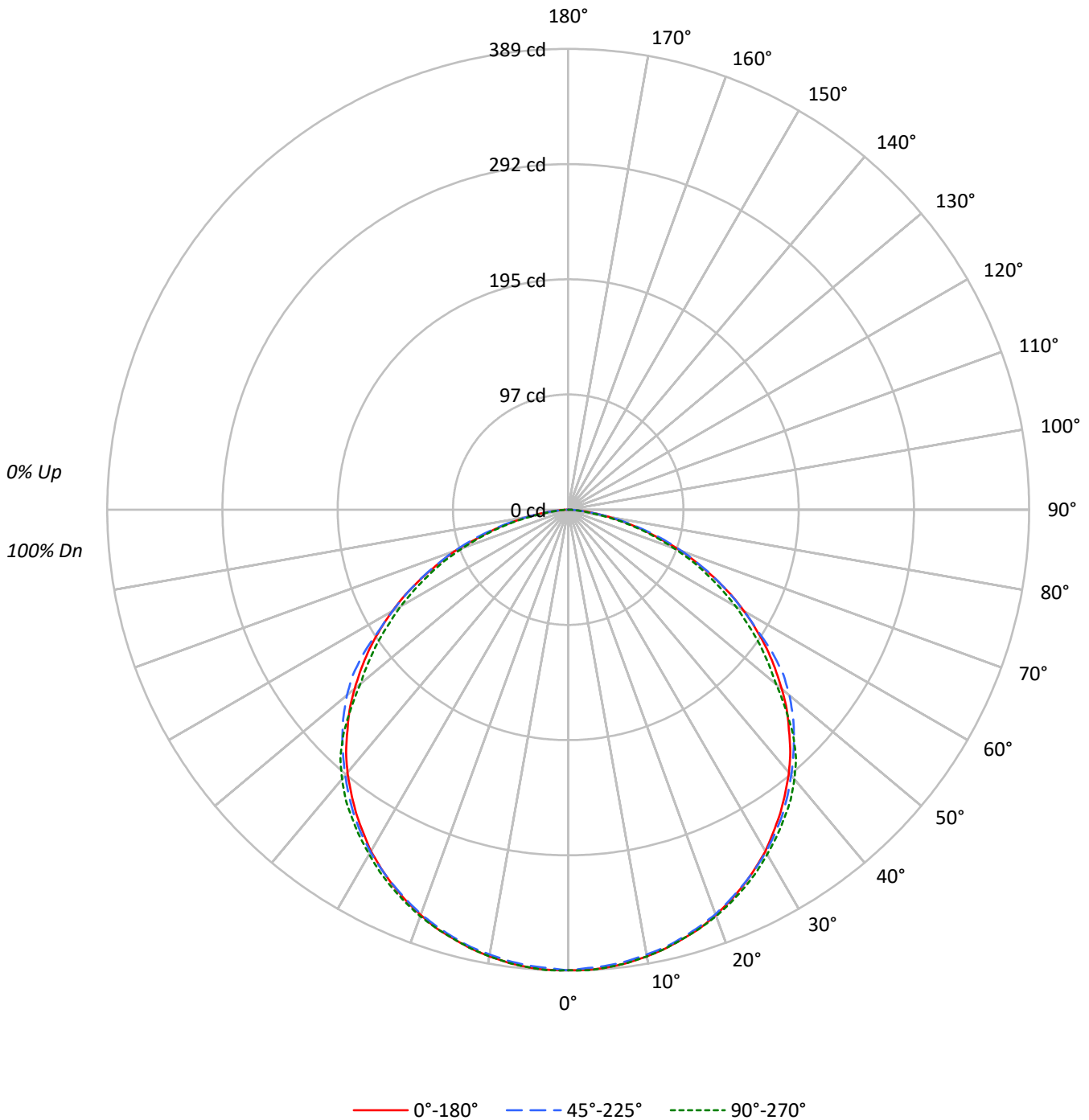
Input Watts (W): 15.159  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1046	1046	1046
5°	1047	1043	1047
10°	1046	1042	1046
15°	1044	1041	1044
20°	1042	1040	1046
25°	1039	1037	1045
30°	1034	1037	1044
35°	1026	1034	1044
40°	1018	1028	1043
45°	1003	1026	1021
50°	985	1020	958
55°	959	988	923
60°	923	921	879
65°	865	870	822
70°	795	803	744
75°	667	699	636
80°	530	541	448
85°	349	303	256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.8	3.3
10°-20°	105.8	9.6
20°-30°	161.6	14.6
30°-40°	197.2	17.8
40°-50°	206.2	18.6
50°-60°	182.5	16.5
60°-70°	134.4	12.1
70°-80°	69.6	6.3
80°-90°	13.9	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°	304.2	27.5
0°-40°	501.4	45.3
0°-60°	890.1	80.3
0°-90°	1108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	388	388	386	388	388	37
15°	375	375	374	375	375	106
25°	350	350	349	352	352	161
35°	312	313	315	318	318	195
45°	264	266	270	272	268	203
55°	204	209	210	200	197	182
65°	136	144	137	131	129	135
75°	64	69	67	63	61	69
85°	11	12	10	9	8	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	388.8	388.8	388.8	388.8	388.8
2.5°	388.8	388.8	387.3	388.8	389.2
5°	387.7	387.7	386.2	387.7	387.7
7.5°	385.8	385.4	384.3	385.8	385.8
10°	382.8	382.8	381.3	383.2	382.8
12.5°	379.4	379.1	378.3	379.8	379.4
15°	374.9	374.9	373.8	375.3	374.9
17.5°	370.4	370.1	368.9	370.4	370.4
20°	364.0	363.7	363.3	364.8	365.2
22.5°	357.3	356.9	356.5	358.8	358.8
25°	349.8	349.8	349.4	351.7	352.0
27.5°	341.5	341.5	341.9	344.9	344.5
30°	332.9	332.9	333.6	335.9	335.9
32.5°	322.4	323.1	324.6	327.3	327.3
35°	312.3	313.0	314.9	317.9	317.9
37.5°	301.0	302.1	304.0	307.8	308.5
40°	289.7	290.5	292.7	296.9	296.9
42.5°	277.4	278.1	281.1	285.2	284.5
45°	263.5	265.7	269.5	271.7	268.3
47.5°	250.3	251.8	257.1	254.5	248.8
50°	235.3	238.3	243.6	234.2	228.9
52.5°	219.9	223.3	228.9	215.8	212.8
55°	204.5	208.7	210.5	199.7	196.7
57.5°	188.0	192.5	188.8	182.4	179.4
60°	171.5	176.8	171.1	165.1	163.3
62.5°	154.3	160.3	153.9	148.6	146.0
65°	135.9	144.1	136.6	131.4	129.1
67.5°	117.8	126.5	118.6	114.1	112.6
70°	101.0	105.8	102.1	97.6	94.6
72.5°	80.7	85.6	84.8	79.9	78.1
75°	64.2	68.7	67.2	63.1	61.2
77.5°	47.7	52.5	51.0	46.2	45.4
80°	34.2	37.5	34.9	30.4	28.9
82.5°	21.4	24.0	20.6	17.3	16.5
85°	11.3	12.0	9.8	8.6	8.3
87.5°	3.8	4.1	4.1	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)