

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: P259171

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259171  
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-LD5-25-SQP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1506.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 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

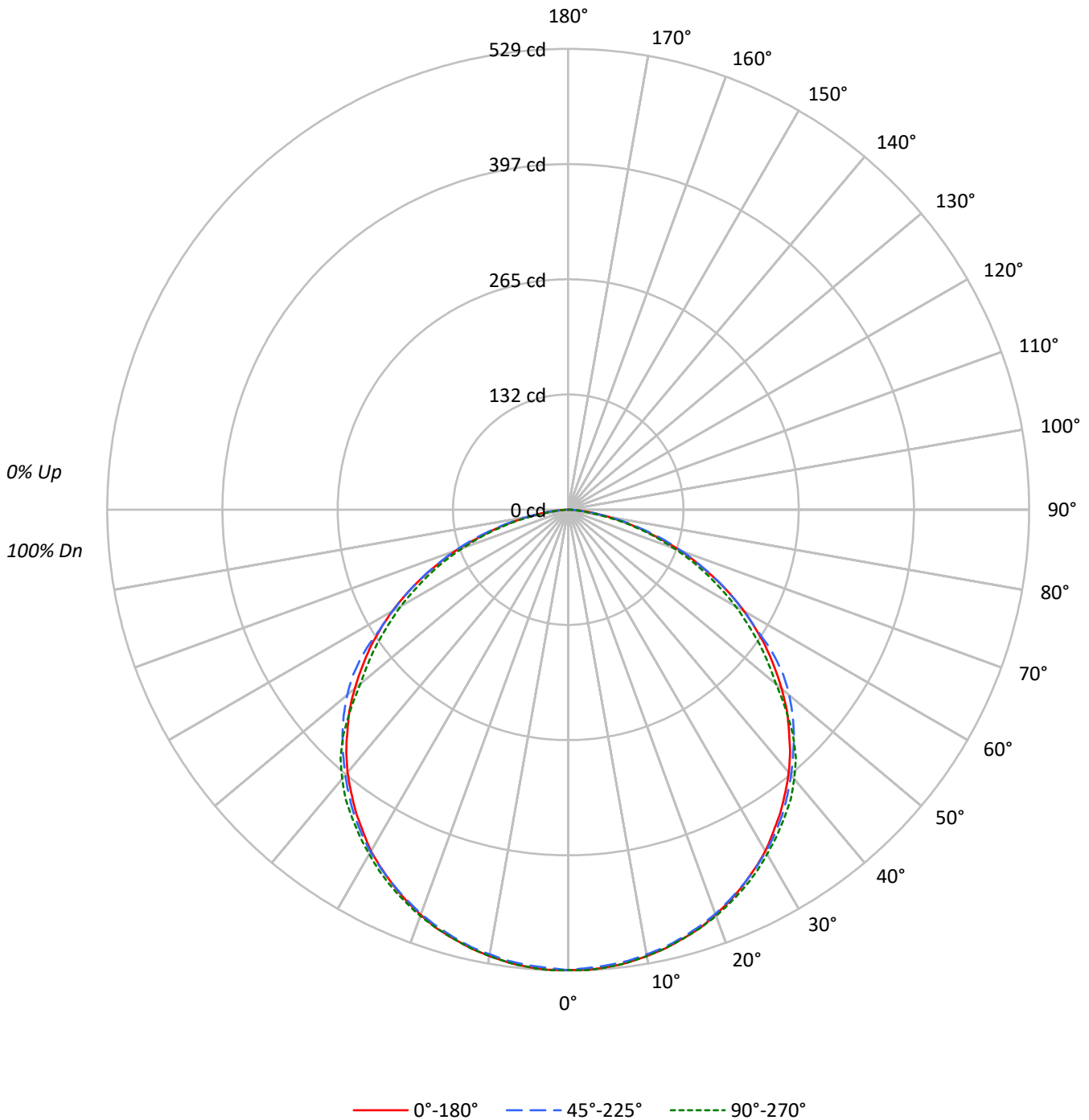
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1422	1422	1422
5°	1424	1418	1424
10°	1422	1416	1422
15°	1420	1416	1420
20°	1417	1414	1421
25°	1412	1410	1421
30°	1406	1409	1419
35°	1394	1406	1419
40°	1383	1398	1417
45°	1363	1394	1388
50°	1339	1386	1303
55°	1304	1343	1254
60°	1255	1252	1194
65°	1176	1182	1117
70°	1079	1092	1011
75°	907	949	864
80°	719	735	609
85°	472	411	346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	3.3
10°-20°	143.8	9.6
20°-30°	219.6	14.6
30°-40°	268.0	17.8
40°-50°	280.2	18.6
50°-60°	248.1	16.5
60°-70°	182.7	12.1
70°-80°	94.6	6.3
80°-90°	18.8	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°	413.5	27.5
0°-40°	681.5	45.3
0°-60°	1209.9	80.3
0°-90°	1506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	527	527	525	527	527	50
15°	510	510	508	510	510	144
25°	475	475	475	478	478	219
35°	424	425	428	432	432	265
45°	358	361	366	369	365	276
55°	278	284	286	271	267	248
65°	185	196	186	178	176	183
75°	87	93	91	86	83	93
85°	15	16	13	12	11	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	528.5	528.5	528.5	528.5	528.5
2.5°	528.5	528.5	526.4	528.5	529.0
5°	527.0	527.0	524.9	527.0	527.0
7.5°	524.4	523.9	522.4	524.4	524.4
10°	520.3	520.3	518.3	520.8	520.3
12.5°	515.7	515.2	514.2	516.2	515.7
15°	509.6	509.6	508.1	510.1	509.6
17.5°	503.5	503.0	501.4	503.5	503.5
20°	494.8	494.3	493.8	495.8	496.3
22.5°	485.6	485.1	484.6	487.7	487.7
25°	475.4	475.4	474.9	478.0	478.5
27.5°	464.2	464.2	464.7	468.8	468.3
30°	452.5	452.5	453.5	456.6	456.6
32.5°	438.2	439.2	441.3	444.8	444.8
35°	424.4	425.4	428.0	432.1	432.1
37.5°	409.1	410.6	413.2	418.3	419.3
40°	393.8	394.8	397.9	403.5	403.5
42.5°	377.0	378.0	382.1	387.7	386.7
45°	358.1	361.2	366.3	369.3	364.7
47.5°	340.2	342.3	349.4	345.9	338.2
50°	319.8	323.9	331.1	318.3	311.2
52.5°	298.9	303.5	311.2	293.3	289.2
55°	278.0	283.6	286.2	271.4	267.3
57.5°	255.6	261.7	256.6	247.9	243.8
60°	233.1	240.3	232.6	224.5	221.9
62.5°	209.7	217.8	209.1	202.0	198.4
65°	184.7	195.9	185.7	178.5	175.5
67.5°	160.2	171.9	161.2	155.1	153.0
70°	137.2	143.9	138.8	132.6	128.5
72.5°	109.7	116.3	115.3	108.7	106.1
75°	87.2	93.4	91.3	85.7	83.1
77.5°	64.8	71.4	69.4	62.7	61.7
80°	46.4	51.0	47.4	41.3	39.3
82.5°	29.1	32.6	28.1	23.5	22.4
85°	15.3	16.3	13.3	11.7	11.2
87.5°	5.1	5.6	5.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)