

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: P259169

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259169  
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-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1490.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 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

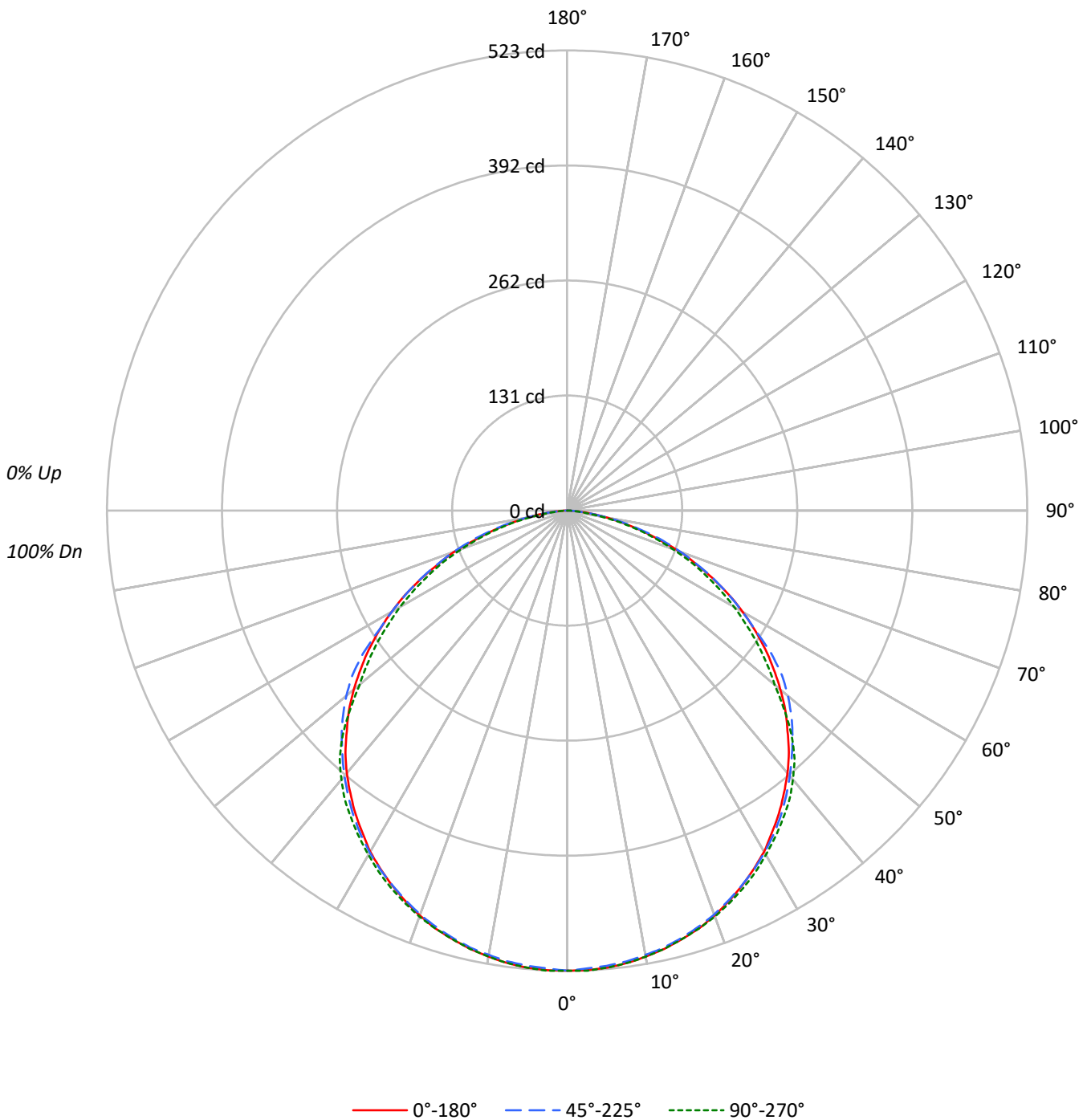
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1407	1407	1407
5°	1408	1403	1408
10°	1407	1401	1407
15°	1405	1400	1405
20°	1402	1399	1406
25°	1397	1395	1406
30°	1391	1394	1404
35°	1379	1391	1404
40°	1369	1383	1402
45°	1348	1379	1373
50°	1325	1371	1289
55°	1291	1328	1241
60°	1241	1238	1181
65°	1163	1170	1105
70°	1068	1080	1001
75°	897	939	856
80°	711	727	603
85°	466	404	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	3.3
10°-20°	142.3	9.6
20°-30°	217.3	14.6
30°-40°	265.1	17.8
40°-50°	277.3	18.6
50°-60°	245.5	16.5
60°-70°	180.7	12.1
70°-80°	93.6	6.3
80°-90°	18.6	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°	409.2	27.5
0°-40°	674.3	45.3
0°-60°	1197.0	80.3
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	521	521	519	521	521	50
15°	504	504	503	505	504	142
25°	470	470	470	473	473	217
35°	420	421	423	428	428	263
45°	354	357	362	365	361	274
55°	275	281	283	268	264	245
65°	183	194	184	177	174	181
75°	86	92	90	85	82	92
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°	522.9	522.9	522.9	522.9	522.9
2.5°	522.9	522.9	520.8	522.9	523.4
5°	521.4	521.4	519.3	521.4	521.4
7.5°	518.8	518.3	516.8	518.8	518.8
10°	514.8	514.8	512.8	515.3	514.8
12.5°	510.2	509.7	508.7	510.8	510.2
15°	504.2	504.2	502.7	504.7	504.2
17.5°	498.1	497.6	496.1	498.1	498.1
20°	489.6	489.1	488.5	490.6	491.1
22.5°	480.5	480.0	479.5	482.5	482.5
25°	470.4	470.4	469.9	472.9	473.4
27.5°	459.3	459.3	459.8	463.8	463.3
30°	447.7	447.7	448.7	451.7	451.7
32.5°	433.5	434.5	436.6	440.1	440.1
35°	419.9	420.9	423.4	427.5	427.5
37.5°	404.8	406.3	408.8	413.9	414.9
40°	389.6	390.6	393.7	399.2	399.2
42.5°	373.0	374.0	378.0	383.6	382.6
45°	354.3	357.3	362.4	365.4	360.9
47.5°	336.6	338.7	345.7	342.2	334.6
50°	316.4	320.5	327.5	314.9	307.9
52.5°	295.8	300.3	307.9	290.2	286.2
55°	275.1	280.6	283.1	268.5	264.5
57.5°	252.9	258.9	253.9	245.3	241.2
60°	230.6	237.7	230.1	222.1	219.5
62.5°	207.4	215.5	206.9	199.9	196.3
65°	182.7	193.8	183.7	176.6	173.6
67.5°	158.5	170.1	159.5	153.4	151.4
70°	135.8	142.3	137.3	131.2	127.2
72.5°	108.5	115.1	114.1	107.5	105.0
75°	86.3	92.4	90.3	84.8	82.3
77.5°	64.1	70.7	68.6	62.1	61.1
80°	45.9	50.5	46.9	40.9	38.9
82.5°	28.8	32.3	27.8	23.2	22.2
85°	15.1	16.2	13.1	11.6	11.1
87.5°	5.0	5.6	5.6	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)