

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: P259079

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259079  
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-L93050-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1482.0 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

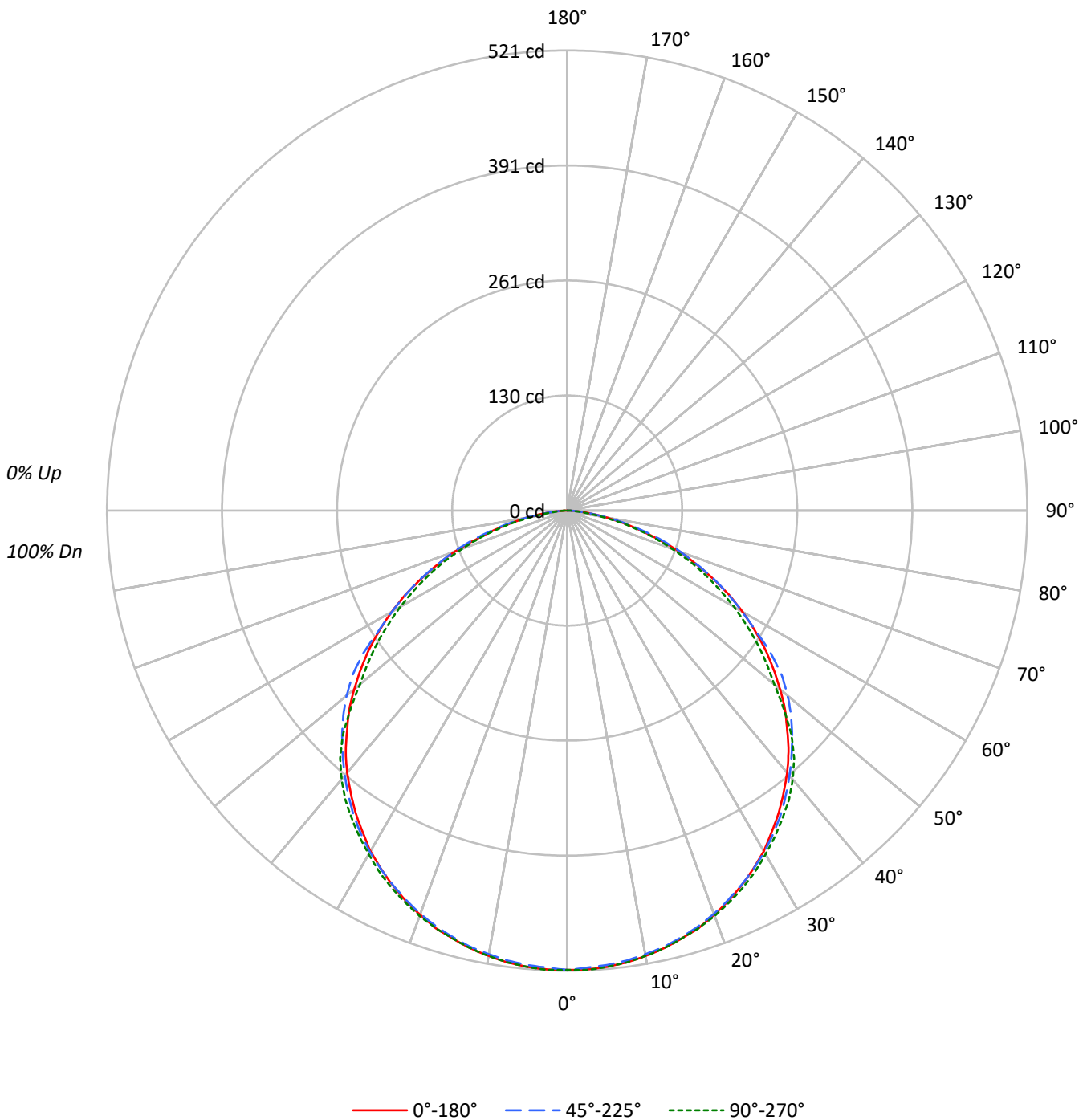
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1400	1400	1400
5°	1401	1395	1401
10°	1399	1394	1399
15°	1397	1393	1397
20°	1394	1391	1399
25°	1389	1388	1398
30°	1384	1387	1396
35°	1372	1384	1397
40°	1361	1376	1395
45°	1341	1372	1366
50°	1317	1364	1282
55°	1284	1321	1234
60°	1235	1232	1175
65°	1157	1163	1100
70°	1062	1074	995
75°	892	935	850
80°	708	724	600
85°	466	404	340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	3.3
10°-20°	141.6	9.6
20°-30°	216.2	14.6
30°-40°	263.7	17.8
40°-50°	275.8	18.6
50°-60°	244.1	16.5
60°-70°	179.8	12.1
70°-80°	93.1	6.3
80°-90°	18.5	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°	407.0	27.5
0°-40°	670.7	45.3
0°-60°	1190.6	80.3
0°-90°	1482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	519	519	516	519	519	49
15°	502	502	500	502	502	142
25°	468	468	467	470	471	216
35°	418	419	421	425	425	261
45°	352	355	360	363	359	272
55°	274	279	282	267	263	244
65°	182	193	183	176	173	180
75°	86	92	90	84	82	92
85°	15	16	13	12	11	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	520.1	520.1	520.1	520.1	520.1
2.5°	520.1	520.1	518.1	520.1	520.6
5°	518.6	518.6	516.5	518.6	518.6
7.5°	516.0	515.5	514.0	516.0	516.0
10°	512.0	512.0	510.0	512.5	512.0
12.5°	507.5	507.0	506.0	508.0	507.5
15°	501.5	501.5	500.0	502.0	501.5
17.5°	495.5	495.0	493.5	495.5	495.5
20°	486.9	486.4	485.9	487.9	488.4
22.5°	477.9	477.4	476.9	479.9	479.9
25°	467.9	467.9	467.4	470.4	470.9
27.5°	456.8	456.8	457.3	461.3	460.8
30°	445.3	445.3	446.3	449.3	449.3
32.5°	431.2	432.2	434.2	437.7	437.7
35°	417.7	418.7	421.2	425.2	425.2
37.5°	402.6	404.1	406.6	411.6	412.6
40°	387.5	388.5	391.6	397.1	397.1
42.5°	371.0	372.0	376.0	381.5	380.5
45°	352.4	355.4	360.4	363.4	358.9
47.5°	334.8	336.8	343.9	340.3	332.8
50°	314.7	318.8	325.8	313.2	306.2
52.5°	294.2	298.7	306.2	288.6	284.6
55°	273.6	279.1	281.6	267.1	263.0
57.5°	251.5	257.5	252.5	244.0	240.0
60°	229.4	236.4	228.9	220.9	218.4
62.5°	206.3	214.3	205.8	198.8	195.3
65°	181.7	192.8	182.7	175.7	172.7
67.5°	157.6	169.2	158.6	152.6	150.6
70°	135.0	141.6	136.5	130.5	126.5
72.5°	107.9	114.5	113.4	106.9	104.4
75°	85.8	91.9	89.9	84.3	81.8
77.5°	63.8	70.3	68.3	61.7	60.7
80°	45.7	50.2	46.7	40.7	38.7
82.5°	28.6	32.1	27.6	23.1	22.1
85°	15.1	16.1	13.1	11.5	11.0
87.5°	5.0	5.5	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)