

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: P259170

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259170  
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-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1496.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

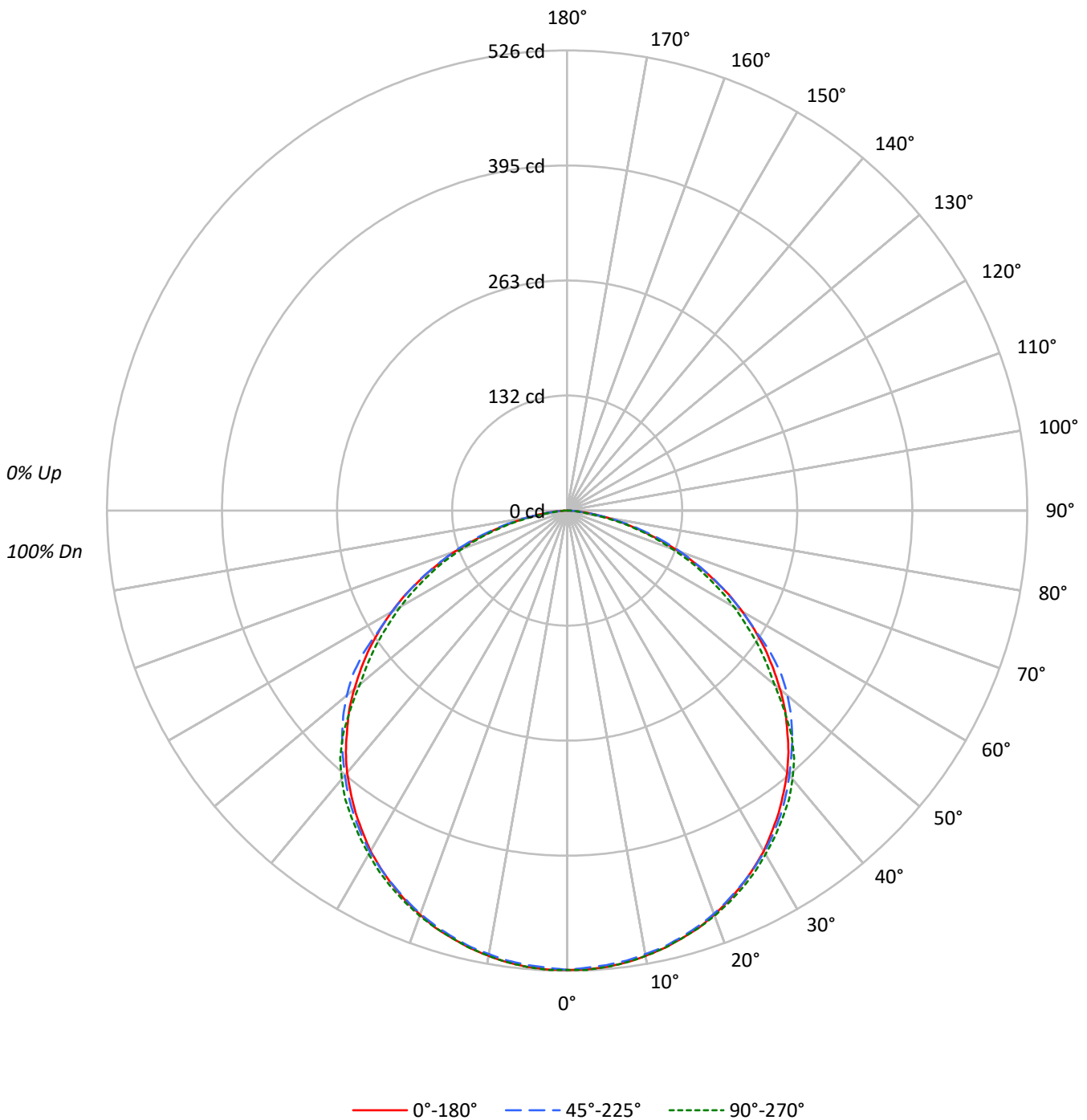
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1413	1413	1413
5°	1414	1408	1414
10°	1412	1407	1412
15°	1410	1406	1410
20°	1407	1405	1412
25°	1402	1401	1411
30°	1397	1400	1409
35°	1385	1396	1410
40°	1374	1388	1408
45°	1354	1384	1379
50°	1330	1377	1294
55°	1296	1334	1246
60°	1246	1244	1186
65°	1168	1174	1110
70°	1072	1084	1005
75°	901	943	859
80°	714	730	604
85°	469	408	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.7	3.3
10°-20°	142.9	9.6
20°-30°	218.2	14.6
30°-40°	266.2	17.8
40°-50°	278.4	18.6
50°-60°	246.5	16.5
60°-70°	181.5	12.1
70°-80°	93.9	6.3
80°-90°	18.7	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°	410.8	27.5
0°-40°	677.0	45.3
0°-60°	1201.8	80.3
0°-90°	1496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	525	525	525	525	525	
5°	524	524	521	524	524	50
15°	506	506	505	507	506	143
25°	472	472	472	475	475	218
35°	422	423	425	429	429	264
45°	356	359	364	367	362	275
55°	276	282	284	270	266	246
65°	183	195	184	177	174	182
75°	87	93	91	85	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°	525.0	525.0	525.0	525.0	525.0
2.5°	525.0	525.0	522.9	525.0	525.5
5°	523.5	523.5	521.4	523.5	523.5
7.5°	520.9	520.4	518.9	520.9	520.9
10°	516.9	516.9	514.8	517.4	516.9
12.5°	512.3	511.8	510.8	512.8	512.3
15°	506.2	506.2	504.7	506.7	506.2
17.5°	500.1	499.6	498.1	500.1	500.1
20°	491.5	491.0	490.5	492.5	493.0
22.5°	482.4	481.9	481.4	484.4	484.4
25°	472.3	472.3	471.8	474.8	475.3
27.5°	461.1	461.1	461.6	465.7	465.2
30°	449.5	449.5	450.5	453.5	453.5
32.5°	435.3	436.3	438.3	441.9	441.9
35°	421.6	422.6	425.1	429.2	429.2
37.5°	406.4	407.9	410.5	415.5	416.5
40°	391.2	392.2	395.2	400.8	400.8
42.5°	374.5	375.5	379.5	385.1	384.1
45°	355.7	358.8	363.8	366.9	362.3
47.5°	338.0	340.0	347.1	343.6	336.0
50°	317.7	321.8	328.9	316.2	309.1
52.5°	296.9	301.5	309.1	291.4	287.3
55°	276.2	281.7	284.3	269.6	265.5
57.5°	253.9	260.0	254.9	246.3	242.2
60°	231.6	238.7	231.1	223.0	220.4
62.5°	208.3	216.4	207.8	200.7	197.1
65°	183.4	194.6	184.4	177.4	174.3
67.5°	159.1	170.8	160.1	154.0	152.0
70°	136.3	142.9	137.8	131.7	127.7
72.5°	108.9	115.5	114.5	107.9	105.4
75°	86.7	92.7	90.7	85.1	82.6
77.5°	64.4	70.9	68.9	62.3	61.3
80°	46.1	50.7	47.1	41.0	39.0
82.5°	28.9	32.4	27.9	23.3	22.3
85°	15.2	16.2	13.2	11.7	11.1
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)