

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: P259109

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259109
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-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1456.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

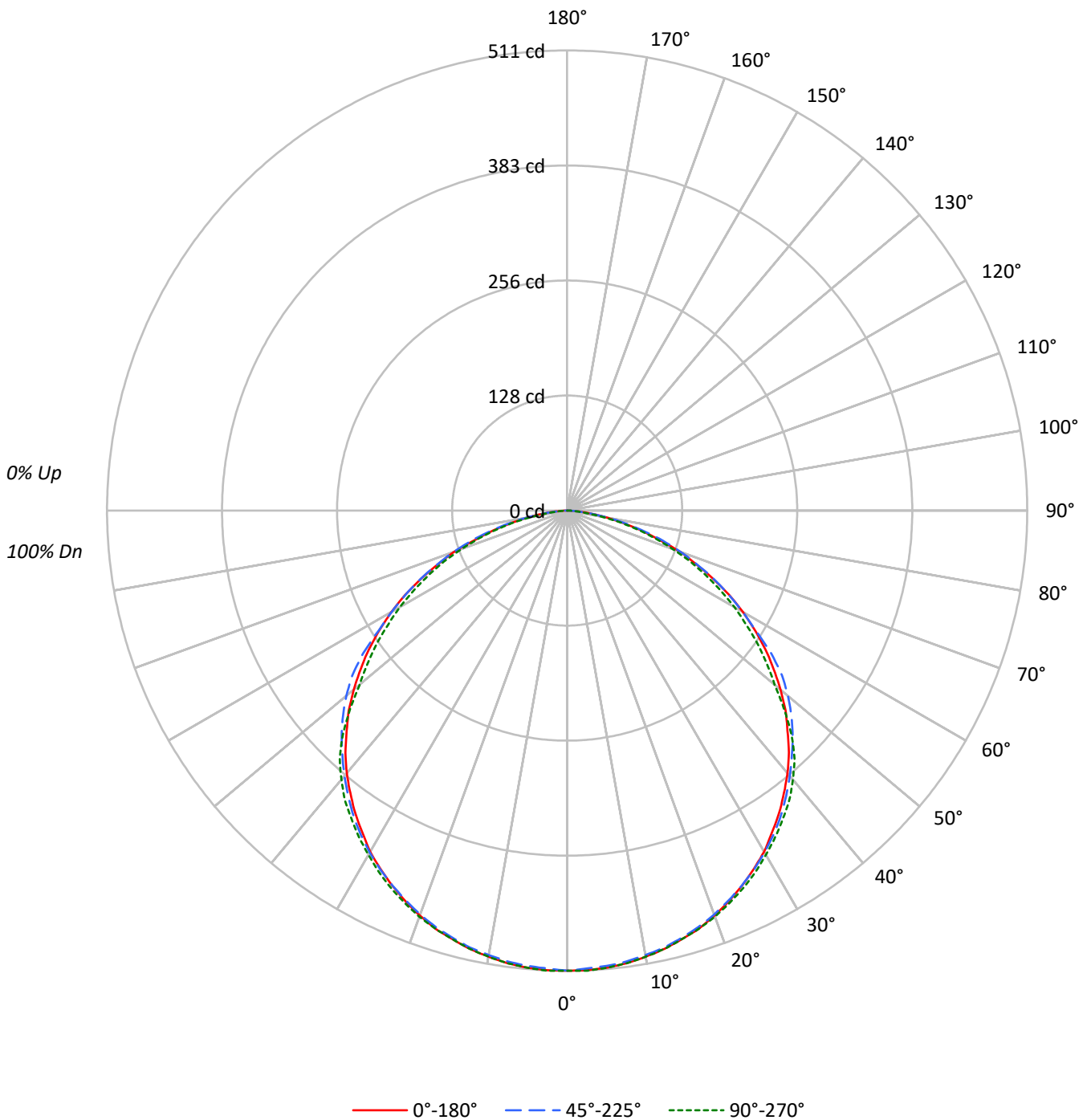
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1375	1375	1375
5°	1376	1371	1376
10°	1374	1369	1374
15°	1373	1368	1373
20°	1370	1367	1374
25°	1365	1363	1374
30°	1359	1362	1372
35°	1348	1359	1372
40°	1337	1351	1370
45°	1318	1348	1342
50°	1294	1340	1259
55°	1261	1298	1212
60°	1213	1210	1154
65°	1137	1143	1081
70°	1044	1055	978
75°	876	918	836
80°	696	711	589
85°	457	395	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.3
10°-20°	139.1	9.6
20°-30°	212.4	14.6
30°-40°	259.1	17.8
40°-50°	270.9	18.6
50°-60°	239.9	16.5
60°-70°	176.6	12.1
70°-80°	91.4	6.3
80°-90°	18.2	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°	399.8	27.5
0°-40°	658.9	45.3
0°-60°	1169.7	80.3
0°-90°	1456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	510	510	508	510	510	48
15°	493	493	491	493	493	139
25°	460	460	459	462	463	212
35°	410	411	414	418	418	257
45°	346	349	354	357	353	267
55°	269	274	277	262	258	240
65°	178	189	180	173	170	177
75°	84	90	88	83	80	90
85°	15	16	13	11	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.9	510.9	510.9	510.9	510.9
2.5°	510.9	510.9	509.0	510.9	511.4
5°	509.5	509.5	507.5	509.5	509.5
7.5°	507.0	506.5	505.0	507.0	507.0
10°	503.0	503.0	501.1	503.5	503.0
12.5°	498.6	498.1	497.1	499.1	498.6
15°	492.7	492.7	491.2	493.2	492.7
17.5°	486.8	486.3	484.8	486.8	486.8
20°	478.4	477.9	477.4	479.4	479.9
22.5°	469.5	469.0	468.5	471.5	471.5
25°	459.6	459.6	459.2	462.1	462.6
27.5°	448.8	448.8	449.3	453.2	452.7
30°	437.5	437.5	438.4	441.4	441.4
32.5°	423.6	424.6	426.6	430.1	430.1
35°	410.3	411.3	413.8	417.7	417.7
37.5°	395.5	397.0	399.5	404.4	405.4
40°	380.7	381.7	384.7	390.1	390.1
42.5°	364.5	365.4	369.4	374.8	373.8
45°	346.2	349.2	354.1	357.1	352.6
47.5°	329.0	330.9	337.8	334.4	327.0
50°	309.2	313.2	320.1	307.7	300.8
52.5°	289.0	293.4	300.8	283.6	279.6
55°	268.8	274.2	276.7	262.4	258.4
57.5°	247.1	253.0	248.1	239.7	235.7
60°	225.4	232.3	224.9	217.0	214.5
62.5°	202.7	210.6	202.2	195.3	191.8
65°	178.5	189.4	179.5	172.6	169.7
67.5°	154.9	166.2	155.8	149.9	148.0
70°	132.7	139.1	134.1	128.2	124.3
72.5°	106.0	112.4	111.5	105.0	102.6
75°	84.3	90.3	88.3	82.9	80.4
77.5°	62.6	69.0	67.1	60.7	59.7
80°	44.9	49.3	45.9	39.9	38.0
82.5°	28.1	31.6	27.1	22.7	21.7
85°	14.8	15.8	12.8	11.3	10.8
87.5°	4.9	5.4	5.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)