

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: P259077

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259077
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1457.0 lumens
Efficiency: N/A
Efficacy: 77.9 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

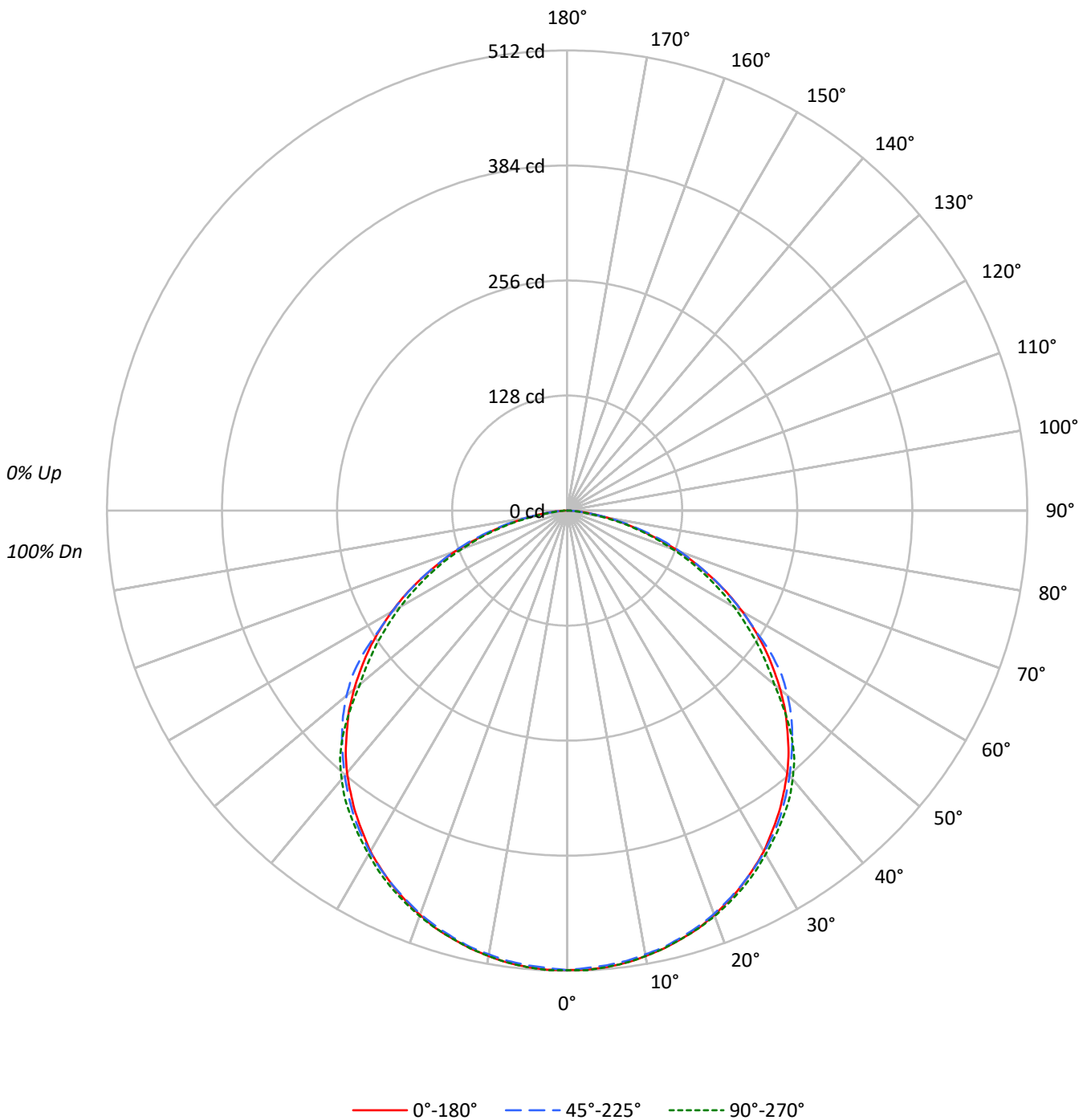
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259077

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P259077

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-4000K

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°	1376	1376	1376
5°	1377	1372	1377
10°	1376	1370	1376
15°	1373	1369	1373
20°	1371	1368	1375
25°	1366	1364	1374
30°	1360	1363	1372
35°	1349	1360	1373
40°	1338	1352	1371
45°	1319	1348	1343
50°	1295	1341	1260
55°	1262	1299	1213
60°	1214	1211	1156
65°	1138	1144	1081
70°	1045	1056	979
75°	878	918	836
80°	696	711	589
85°	457	395	337



TEST NUMBER: P259077

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.3
10°-20°	139.2	9.6
20°-30°	212.5	14.6
30°-40°	259.3	17.8
40°-50°	271.1	18.6
50°-60°	240.0	16.5
60°-70°	176.7	12.1
70°-80°	91.5	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°	400.1	27.5
0°-40°	659.4	45.3
0°-60°	1170.5	80.3
0°-90°	1457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.0	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	492	494	493	139
25°	460	460	460	462	463	212
35°	411	412	414	418	418	257
45°	346	349	354	357	353	268
55°	269	274	277	263	259	240
65°	179	190	180	173	170	177
75°	84	90	88	83	80	90
85°	15	16	13	11	11	19
90°	0	0	0	0	0	



TEST NUMBER: P259077

CATALOG NUMBER: 14CZ-LD5-25-SQP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.3	511.3	511.3	511.3	511.3
2.5°	511.3	511.3	509.3	511.3	511.8
5°	509.8	509.8	507.8	509.8	509.8
7.5°	507.3	506.8	505.4	507.3	507.3
10°	503.4	503.4	501.4	503.9	503.4
12.5°	498.9	498.5	497.5	499.4	498.9
15°	493.0	493.0	491.5	493.5	493.0
17.5°	487.1	486.6	485.1	487.1	487.1
20°	478.7	478.2	477.7	479.7	480.2
22.5°	469.8	469.3	468.8	471.8	471.8
25°	460.0	460.0	459.5	462.4	462.9
27.5°	449.1	449.1	449.6	453.5	453.1
30°	437.8	437.8	438.7	441.7	441.7
32.5°	423.9	424.9	426.9	430.3	430.3
35°	410.6	411.6	414.1	418.0	418.0
37.5°	395.8	397.3	399.8	404.7	405.7
40°	381.0	382.0	384.9	390.4	390.4
42.5°	364.7	365.7	369.6	375.1	374.1
45°	346.5	349.4	354.3	357.3	352.9
47.5°	329.2	331.2	338.1	334.6	327.2
50°	309.4	313.4	320.3	308.0	301.0
52.5°	289.2	293.6	301.0	283.8	279.8
55°	269.0	274.4	276.9	262.6	258.6
57.5°	247.3	253.2	248.2	239.9	235.9
60°	225.5	232.4	225.0	217.1	214.7
62.5°	202.8	210.7	202.3	195.4	192.0
65°	178.7	189.5	179.6	172.7	169.8
67.5°	155.0	166.3	156.0	150.0	148.1
70°	132.8	139.2	134.2	128.3	124.4
72.5°	106.1	112.5	111.5	105.1	102.7
75°	84.4	90.3	88.3	82.9	80.4
77.5°	62.7	69.1	67.1	60.7	59.7
80°	44.9	49.4	45.9	40.0	38.0
82.5°	28.1	31.6	27.1	22.7	21.7
85°	14.8	15.8	12.8	11.4	10.9
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)