

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: P259105

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259105
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-LD5-20-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1401.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

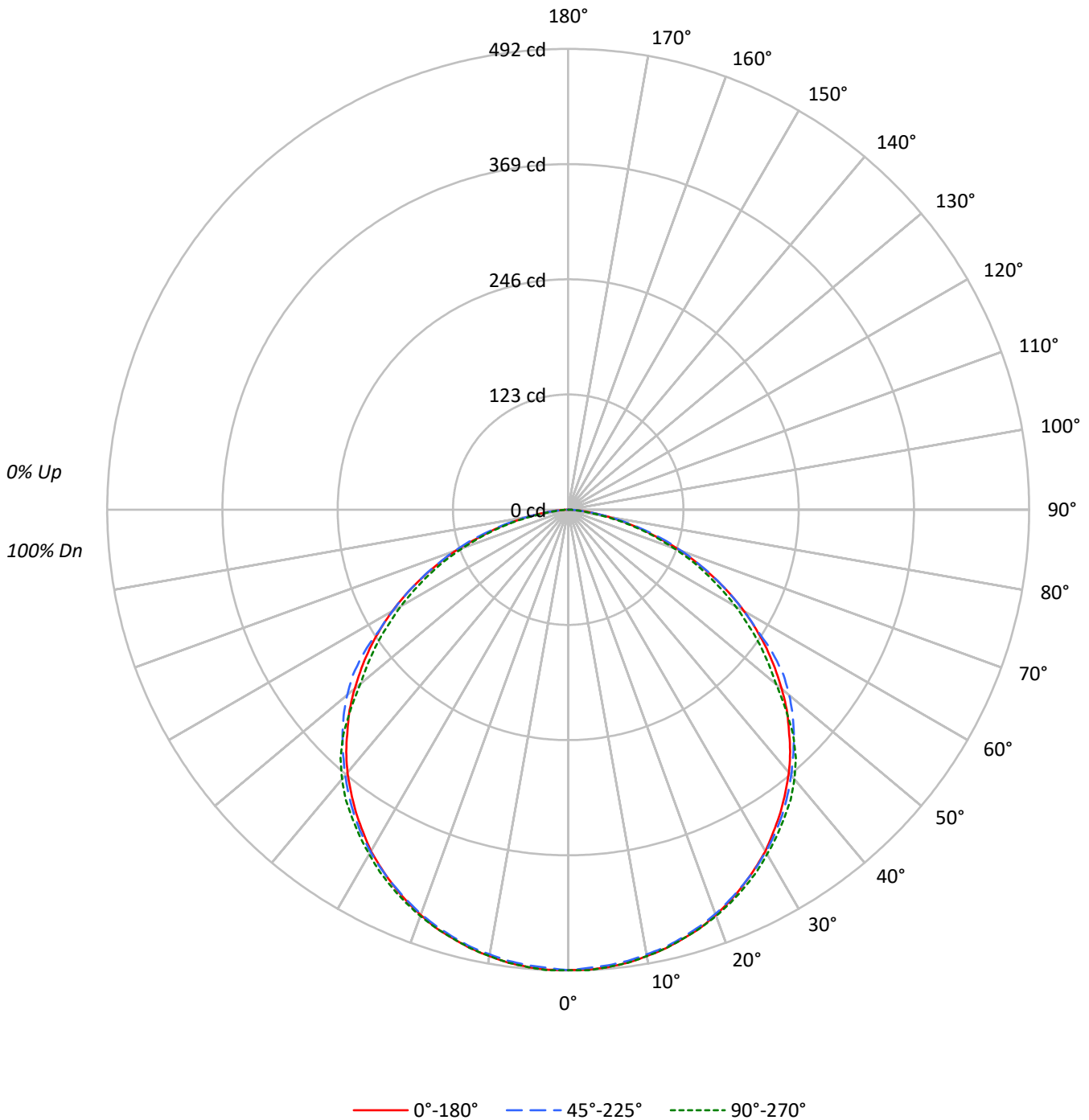
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259105

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P259105

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K

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°	1323	1323	1323
5°	1324	1319	1324
10°	1323	1317	1323
15°	1321	1317	1321
20°	1318	1316	1322
25°	1313	1312	1322
30°	1308	1311	1320
35°	1297	1308	1320
40°	1287	1300	1319
45°	1268	1297	1291
50°	1245	1289	1212
55°	1213	1249	1167
60°	1167	1165	1111
65°	1094	1100	1039
70°	1005	1016	941
75°	843	883	805
80°	669	683	566
85°	438	380	321



TEST NUMBER: P259105

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.3
10°-20°	133.8	9.6
20°-30°	204.3	14.6
30°-40°	249.3	17.8
40°-50°	260.7	18.6
50°-60°	230.8	16.5
60°-70°	170.0	12.1
70°-80°	88.0	6.3
80°-90°	17.5	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°	384.7	27.5
0°-40°	634.0	45.3
0°-60°	1125.5	80.3
0°-90°	1401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	490	490	488	490	490	47
15°	474	474	473	475	474	134
25°	442	442	442	445	445	204
35°	395	396	398	402	402	247
45°	333	336	341	344	339	257
55°	259	264	266	252	249	231
65°	172	182	173	166	163	170
75°	81	87	85	80	77	87
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



TEST NUMBER: P259105

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.6	491.6	491.6	491.6	491.6
2.5°	491.6	491.6	489.7	491.6	492.1
5°	490.2	490.2	488.3	490.2	490.2
7.5°	487.8	487.4	485.9	487.8	487.8
10°	484.0	484.0	482.1	484.5	484.0
12.5°	479.8	479.3	478.3	480.2	479.8
15°	474.1	474.1	472.7	474.6	474.1
17.5°	468.4	467.9	466.5	468.4	468.4
20°	460.3	459.8	459.4	461.3	461.7
22.5°	451.8	451.3	450.8	453.7	453.7
25°	442.3	442.3	441.8	444.7	445.1
27.5°	431.8	431.8	432.3	436.1	435.6
30°	420.9	420.9	421.9	424.7	424.7
32.5°	407.6	408.6	410.5	413.8	413.8
35°	394.8	395.8	398.1	401.9	401.9
37.5°	380.6	382.0	384.4	389.1	390.1
40°	366.4	367.3	370.2	375.4	375.4
42.5°	350.7	351.6	355.4	360.7	359.7
45°	333.1	336.0	340.7	343.6	339.3
47.5°	316.5	318.4	325.1	321.7	314.6
50°	297.5	301.3	308.0	296.1	289.5
52.5°	278.1	282.4	289.5	272.9	269.1
55°	258.6	263.9	266.2	252.5	248.7
57.5°	237.8	243.4	238.7	230.6	226.8
60°	216.9	223.5	216.4	208.8	206.4
62.5°	195.0	202.6	194.6	187.9	184.6
65°	171.8	182.2	172.7	166.1	163.2
67.5°	149.0	159.9	150.0	144.3	142.4
70°	127.7	133.8	129.1	123.4	119.6
72.5°	102.0	108.2	107.2	101.1	98.7
75°	81.1	86.8	84.9	79.7	77.4
77.5°	60.3	66.4	64.5	58.4	57.4
80°	43.2	47.5	44.1	38.4	36.5
82.5°	27.0	30.4	26.1	21.8	20.9
85°	14.2	15.2	12.3	10.9	10.4
87.5°	4.7	5.2	5.2	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)