

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: P259107

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259107
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

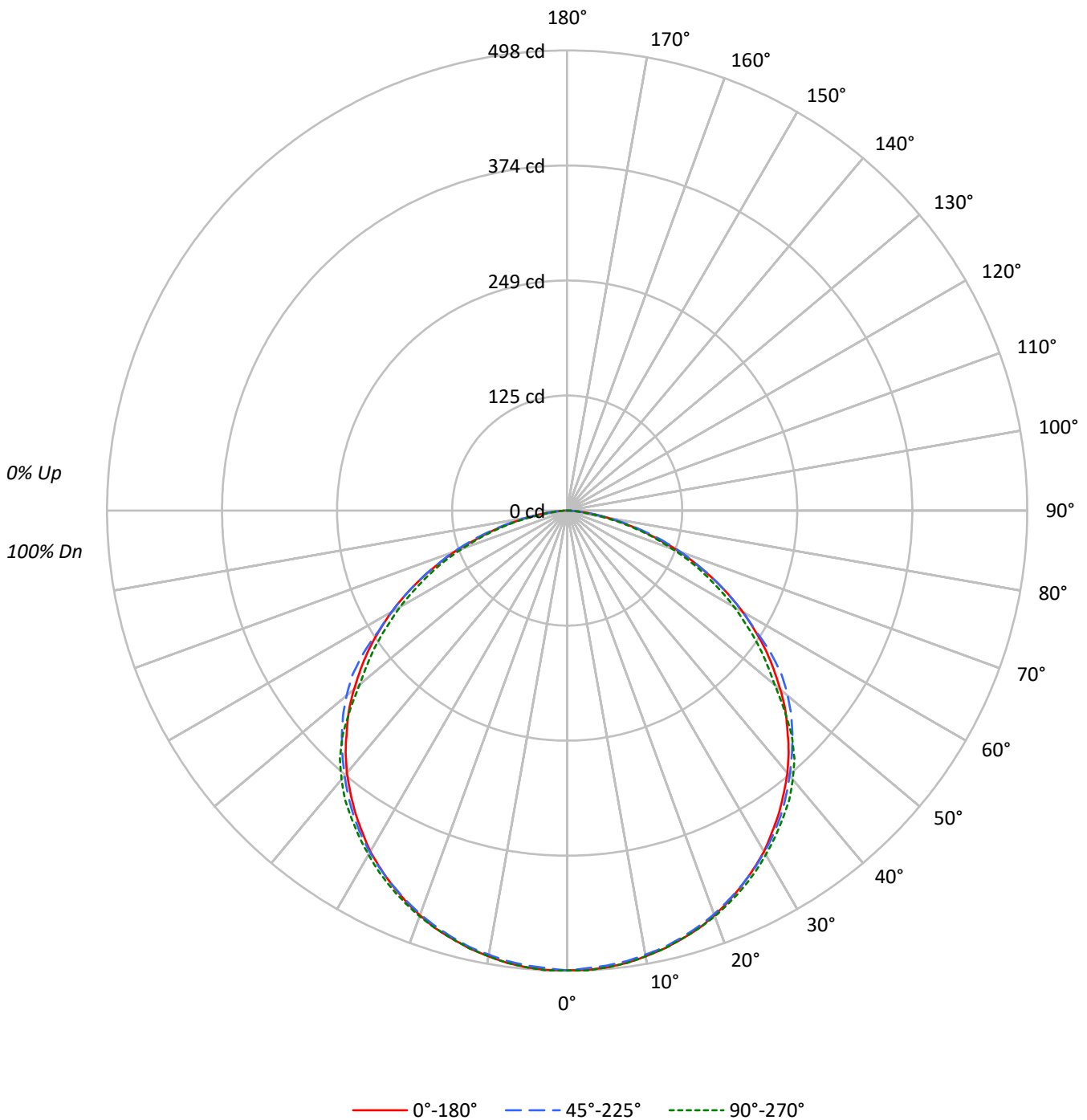
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259107

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P259107

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5700K

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°	1339	1339	1339
5°	1340	1335	1340
10°	1339	1333	1339
15°	1337	1333	1337
20°	1334	1331	1338
25°	1329	1328	1338
30°	1324	1327	1336
35°	1313	1324	1336
40°	1303	1316	1335
45°	1283	1313	1307
50°	1261	1305	1227
55°	1228	1264	1181
60°	1181	1179	1124
65°	1107	1113	1052
70°	1017	1028	952
75°	854	894	814
80°	677	693	573
85°	445	386	327



TEST NUMBER: P259107

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	3.3
10°-20°	135.4	9.6
20°-30°	206.8	14.6
30°-40°	252.3	17.8
40°-50°	263.9	18.6
50°-60°	233.6	16.5
60°-70°	172.0	12.1
70°-80°	89.1	6.3
80°-90°	17.7	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°	389.4	27.5
0°-40°	641.7	45.3
0°-60°	1139.2	80.3
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	496	496	494	496	496	47
15°	480	480	478	480	480	136
25°	448	448	447	450	450	206
35°	400	401	403	407	407	250
45°	337	340	345	348	343	260
55°	262	267	270	256	252	234
65°	174	184	175	168	165	172
75°	82	88	86	81	78	88
85°	14	15	12	11	11	19
90°	0	0	0	0	0	



TEST NUMBER: P259107

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.6	497.6	497.6	497.6	497.6
2.5°	497.6	497.6	495.7	497.6	498.1
5°	496.2	496.2	494.2	496.2	496.2
7.5°	493.8	493.3	491.8	493.8	493.8
10°	489.9	489.9	488.0	490.4	489.9
12.5°	485.6	485.1	484.2	486.1	485.6
15°	479.8	479.8	478.4	480.3	479.8
17.5°	474.1	473.6	472.1	474.1	474.1
20°	465.9	465.4	464.9	466.9	467.3
22.5°	457.3	456.8	456.3	459.2	459.2
25°	447.6	447.6	447.2	450.1	450.5
27.5°	437.1	437.1	437.6	441.4	440.9
30°	426.0	426.0	427.0	429.9	429.9
32.5°	412.6	413.5	415.5	418.8	418.8
35°	399.6	400.6	403.0	406.8	406.8
37.5°	385.2	386.6	389.1	393.9	394.8
40°	370.8	371.8	374.6	379.9	379.9
42.5°	354.9	355.9	359.8	365.0	364.1
45°	337.2	340.1	344.9	347.7	343.4
47.5°	320.4	322.3	329.0	325.7	318.4
50°	301.2	305.0	311.7	299.7	293.0
52.5°	281.5	285.8	293.0	276.2	272.3
55°	261.8	267.1	269.5	255.5	251.7
57.5°	240.6	246.4	241.6	233.4	229.6
60°	219.5	226.2	219.0	211.3	208.9
62.5°	197.4	205.1	196.9	190.2	186.8
65°	173.9	184.4	174.8	168.1	165.2
67.5°	150.8	161.9	151.8	146.0	144.1
70°	129.2	135.4	130.6	124.9	121.0
72.5°	103.3	109.5	108.6	102.3	99.9
75°	82.1	87.9	86.0	80.7	78.3
77.5°	61.0	67.2	65.3	59.1	58.1
80°	43.7	48.0	44.7	38.9	37.0
82.5°	27.4	30.7	26.4	22.1	21.1
85°	14.4	15.4	12.5	11.0	10.6
87.5°	4.8	5.3	5.3	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)