

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: P259108

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259108
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-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1421.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

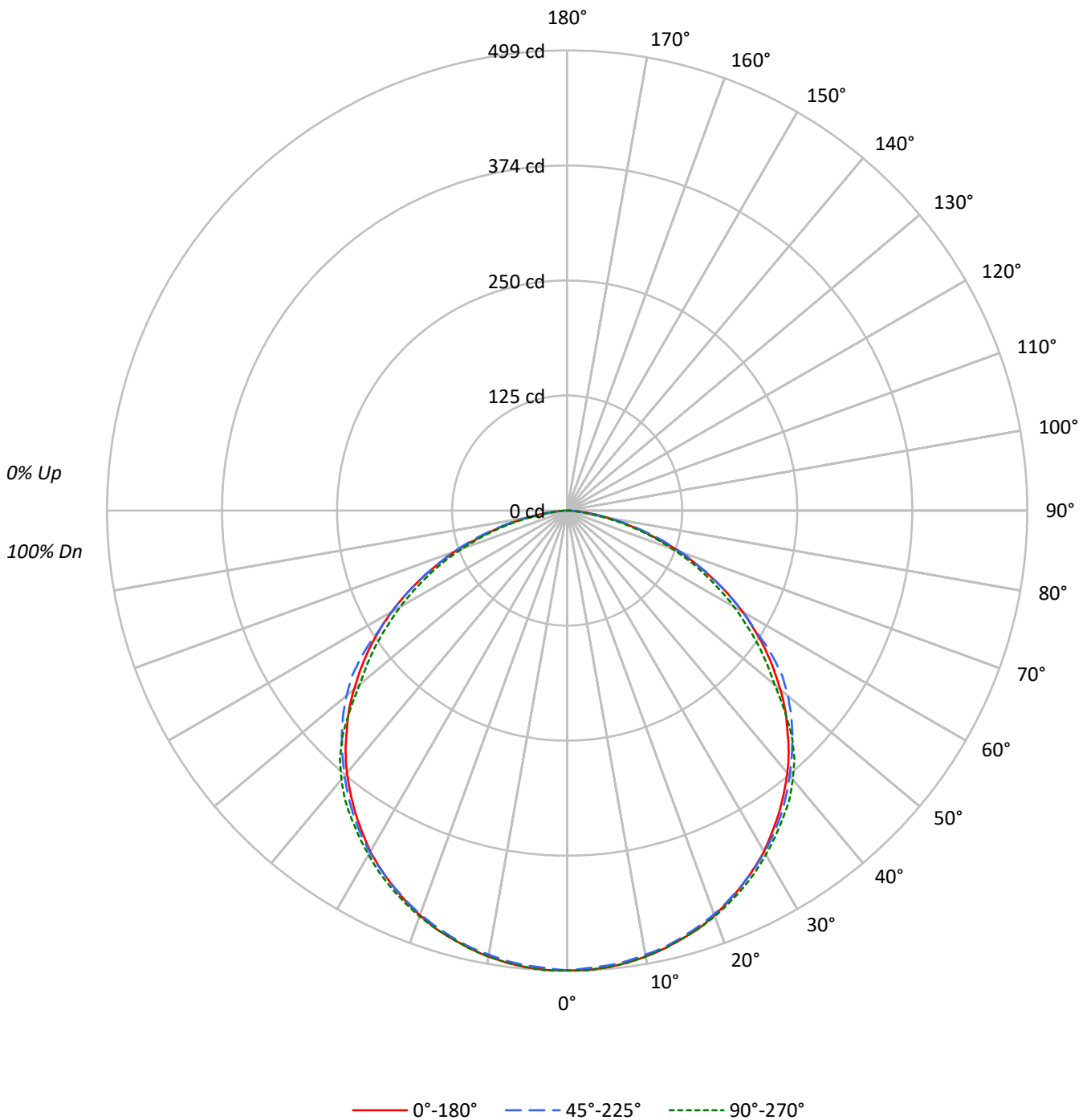
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1342	1342	1342
5°	1343	1338	1343
10°	1342	1336	1342
15°	1339	1336	1339
20°	1337	1334	1341
25°	1332	1330	1341
30°	1326	1330	1339
35°	1316	1327	1339
40°	1305	1319	1337
45°	1286	1315	1310
50°	1263	1308	1229
55°	1231	1267	1183
60°	1184	1181	1127
65°	1109	1116	1054
70°	1019	1030	954
75°	856	896	816
80°	679	694	575
85°	445	386	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	3.3
10°-20°	135.7	9.6
20°-30°	207.2	14.6
30°-40°	252.9	17.8
40°-50°	264.4	18.6
50°-60°	234.1	16.5
60°-70°	172.4	12.1
70°-80°	89.3	6.3
80°-90°	17.8	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°	390.2	27.5
0°-40°	643.1	45.3
0°-60°	1141.6	80.3
0°-90°	1421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	497	497	495	497	497	47
15°	481	481	479	481	481	136
25°	449	449	448	451	452	207
35°	400	401	404	408	408	250
45°	338	341	346	348	344	261
55°	262	268	270	256	252	234
65°	174	185	175	168	166	173
75°	82	88	86	81	78	88
85°	14	15	12	11	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498.7	498.7	498.7	498.7	498.7
2.5°	498.7	498.7	496.7	498.7	499.1
5°	497.2	497.2	495.3	497.2	497.2
7.5°	494.8	494.3	492.9	494.8	494.8
10°	491.0	491.0	489.0	491.4	491.0
12.5°	486.6	486.1	485.2	487.1	486.6
15°	480.8	480.8	479.4	481.3	480.8
17.5°	475.1	474.6	473.1	475.1	475.1
20°	466.9	466.4	465.9	467.8	468.3
22.5°	458.2	457.7	457.3	460.1	460.1
25°	448.6	448.6	448.1	451.0	451.5
27.5°	438.0	438.0	438.5	442.3	441.9
30°	426.9	426.9	427.9	430.8	430.8
32.5°	413.5	414.4	416.3	419.7	419.7
35°	400.5	401.4	403.8	407.7	407.7
37.5°	386.0	387.5	389.9	394.7	395.7
40°	371.6	372.5	375.4	380.7	380.7
42.5°	355.7	356.7	360.5	365.8	364.8
45°	337.9	340.8	345.6	348.5	344.1
47.5°	321.0	323.0	329.7	326.3	319.1
50°	301.8	305.6	312.4	300.3	293.6
52.5°	282.1	286.4	293.6	276.8	272.9
55°	262.3	267.6	270.0	256.1	252.2
57.5°	241.1	246.9	242.1	233.9	230.1
60°	220.0	226.7	219.5	211.8	209.4
62.5°	197.8	205.5	197.3	190.6	187.2
65°	174.2	184.8	175.2	168.5	165.6
67.5°	151.1	162.2	152.1	146.3	144.4
70°	129.5	135.7	130.9	125.1	121.3
72.5°	103.5	109.7	108.8	102.5	100.1
75°	82.3	88.1	86.2	80.9	78.5
77.5°	61.1	67.4	65.5	59.2	58.2
80°	43.8	48.1	44.8	39.0	37.1
82.5°	27.4	30.8	26.5	22.1	21.2
85°	14.4	15.4	12.5	11.1	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)