

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: P259041

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259041
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-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1360.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

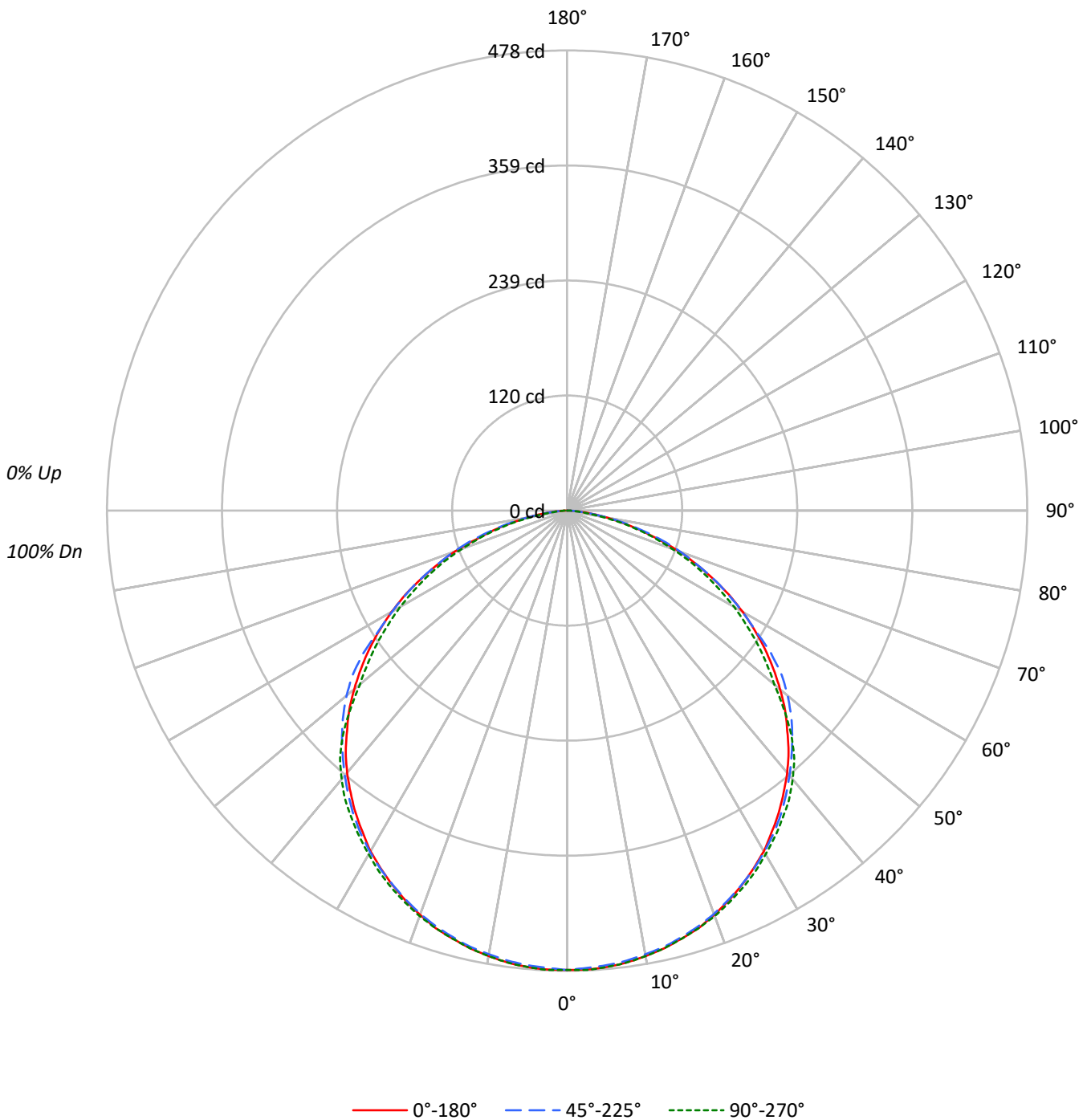
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259041

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P259041

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3500K

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°	1284	1284	1284
5°	1286	1280	1286
10°	1284	1279	1284
15°	1282	1278	1282
20°	1279	1277	1284
25°	1275	1273	1283
30°	1270	1272	1281
35°	1259	1270	1282
40°	1249	1262	1280
45°	1231	1259	1254
50°	1209	1252	1176
55°	1178	1212	1133
60°	1133	1131	1079
65°	1062	1068	1009
70°	975	986	913
75°	819	858	781
80°	649	663	550
85°	426	371	312



TEST NUMBER: P259041

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.3
10°-20°	129.9	9.6
20°-30°	198.4	14.6
30°-40°	242.0	17.8
40°-50°	253.1	18.6
50°-60°	224.0	16.5
60°-70°	165.0	12.1
70°-80°	85.4	6.3
80°-90°	17.0	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°	373.5	27.5
0°-40°	615.5	45.3
0°-60°	1092.6	80.3
0°-90°	1360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	476	476	474	476	476	45
15°	460	460	459	461	460	130
25°	429	429	429	432	432	198
35°	383	384	386	390	390	240
45°	323	326	331	334	329	250
55°	251	256	258	245	241	224
65°	167	177	168	161	158	165
75°	79	84	82	77	75	84
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



TEST NUMBER: P259041

CATALOG NUMBER: 14CZ-LD5-20-SQP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.2	477.2	477.2	477.2	477.2
2.5°	477.2	477.2	475.4	477.2	477.7
5°	475.9	475.9	474.0	475.9	475.9
7.5°	473.6	473.1	471.7	473.6	473.6
10°	469.9	469.9	468.0	470.3	469.9
12.5°	465.7	465.3	464.3	466.2	465.7
15°	460.2	460.2	458.8	460.7	460.2
17.5°	454.7	454.2	452.8	454.7	454.7
20°	446.8	446.4	445.9	447.8	448.2
22.5°	438.6	438.1	437.6	440.4	440.4
25°	429.3	429.3	428.9	431.6	432.1
27.5°	419.2	419.2	419.7	423.4	422.9
30°	408.6	408.6	409.5	412.3	412.3
32.5°	395.7	396.6	398.5	401.7	401.7
35°	383.3	384.2	386.5	390.2	390.2
37.5°	369.5	370.8	373.1	377.7	378.7
40°	355.6	356.6	359.3	364.4	364.4
42.5°	340.4	341.4	345.0	350.1	349.2
45°	323.4	326.2	330.8	333.5	329.4
47.5°	307.3	309.1	315.6	312.3	305.4
50°	288.8	292.5	299.0	287.5	281.0
52.5°	269.9	274.1	281.0	264.9	261.2
55°	251.1	256.1	258.4	245.1	241.4
57.5°	230.8	236.3	231.7	223.9	220.2
60°	210.5	217.0	210.1	202.7	200.4
62.5°	189.3	196.7	188.9	182.4	179.2
65°	166.8	176.9	167.7	161.2	158.5
67.5°	144.6	155.2	145.6	140.0	138.2
70°	123.9	129.9	125.3	119.8	116.1
72.5°	99.0	105.0	104.1	98.1	95.8
75°	78.8	84.3	82.5	77.4	75.1
77.5°	58.5	64.5	62.7	56.7	55.7
80°	41.9	46.1	42.8	37.3	35.5
82.5°	26.3	29.5	25.3	21.2	20.3
85°	13.8	14.7	12.0	10.6	10.1
87.5°	4.6	5.1	5.1	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)