

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: P259165

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259165
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-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1358.0 lumens
Efficiency: N/A
Efficacy: 74.5 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

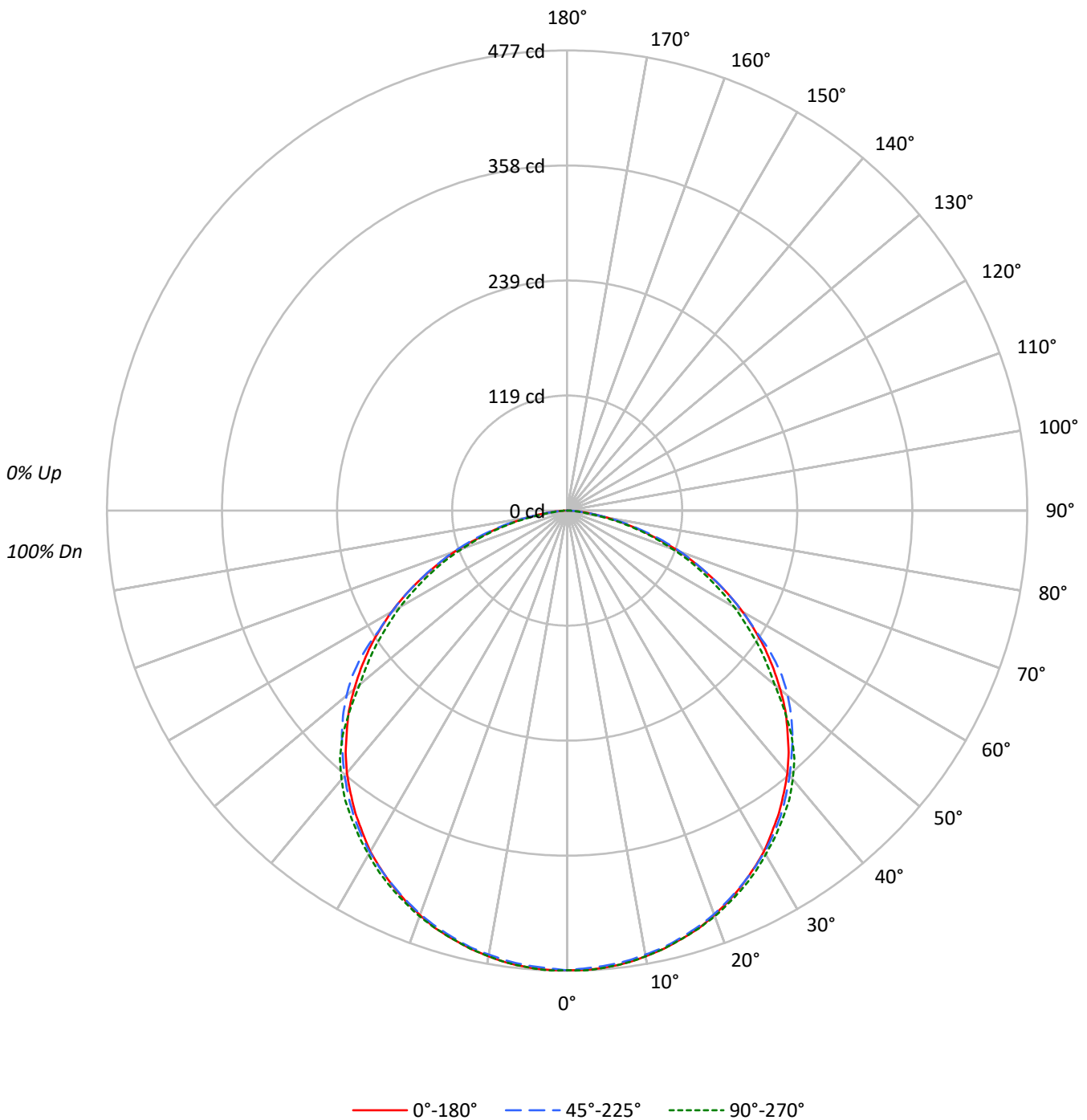
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1282	1282	1282
5°	1284	1279	1284
10°	1282	1277	1282
15°	1280	1276	1280
20°	1278	1275	1282
25°	1273	1271	1281
30°	1268	1271	1279
35°	1257	1268	1280
40°	1247	1260	1278
45°	1229	1257	1252
50°	1207	1250	1175
55°	1176	1211	1131
60°	1131	1129	1077
65°	1060	1066	1007
70°	973	984	912
75°	818	856	780
80°	649	663	549
85°	426	371	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.3
10°-20°	129.7	9.6
20°-30°	198.1	14.6
30°-40°	241.6	17.8
40°-50°	252.7	18.6
50°-60°	223.7	16.5
60°-70°	164.7	12.1
70°-80°	85.3	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°	372.9	27.5
0°-40°	614.5	45.3
0°-60°	1091.0	80.3
0°-90°	1358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	475	475	473	475	475	45
15°	460	460	458	460	460	130
25°	429	429	428	431	432	198
35°	383	384	386	390	390	239
45°	323	326	330	333	329	249
55°	251	256	258	245	241	224
65°	166	177	167	161	158	165
75°	79	84	82	77	75	84
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.5	476.5	476.5	476.5	476.5
2.5°	476.5	476.5	474.7	476.5	477.0
5°	475.2	475.2	473.3	475.2	475.2
7.5°	472.9	472.4	471.0	472.9	472.9
10°	469.2	469.2	467.3	469.6	469.2
12.5°	465.0	464.6	463.7	465.5	465.0
15°	459.5	459.5	458.1	460.0	459.5
17.5°	454.0	453.5	452.2	454.0	454.0
20°	446.2	445.7	445.3	447.1	447.6
22.5°	437.9	437.4	437.0	439.7	439.7
25°	428.7	428.7	428.2	431.0	431.5
27.5°	418.6	418.6	419.0	422.7	422.3
30°	408.0	408.0	408.9	411.7	411.7
32.5°	395.1	396.0	397.9	401.1	401.1
35°	382.7	383.6	385.9	389.6	389.6
37.5°	368.9	370.3	372.6	377.2	378.1
40°	355.1	356.0	358.8	363.8	363.8
42.5°	339.9	340.8	344.5	349.6	348.7
45°	322.9	325.7	330.3	333.0	328.9
47.5°	306.8	308.7	315.1	311.9	305.0
50°	288.4	292.1	298.5	287.0	280.6
52.5°	269.6	273.7	280.6	264.5	260.8
55°	250.7	255.8	258.1	244.7	241.0
57.5°	230.5	236.0	231.4	223.6	219.9
60°	210.2	216.7	209.8	202.4	200.1
62.5°	189.1	196.4	188.6	182.2	178.9
65°	166.5	176.6	167.4	161.0	158.2
67.5°	144.4	155.0	145.4	139.8	138.0
70°	123.7	129.7	125.1	119.6	115.9
72.5°	98.9	104.9	104.0	98.0	95.7
75°	78.7	84.2	82.3	77.3	75.0
77.5°	58.4	64.4	62.6	56.6	55.7
80°	41.9	46.0	42.8	37.3	35.4
82.5°	26.2	29.4	25.3	21.2	20.2
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)