

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: P259168

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259168
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1467.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

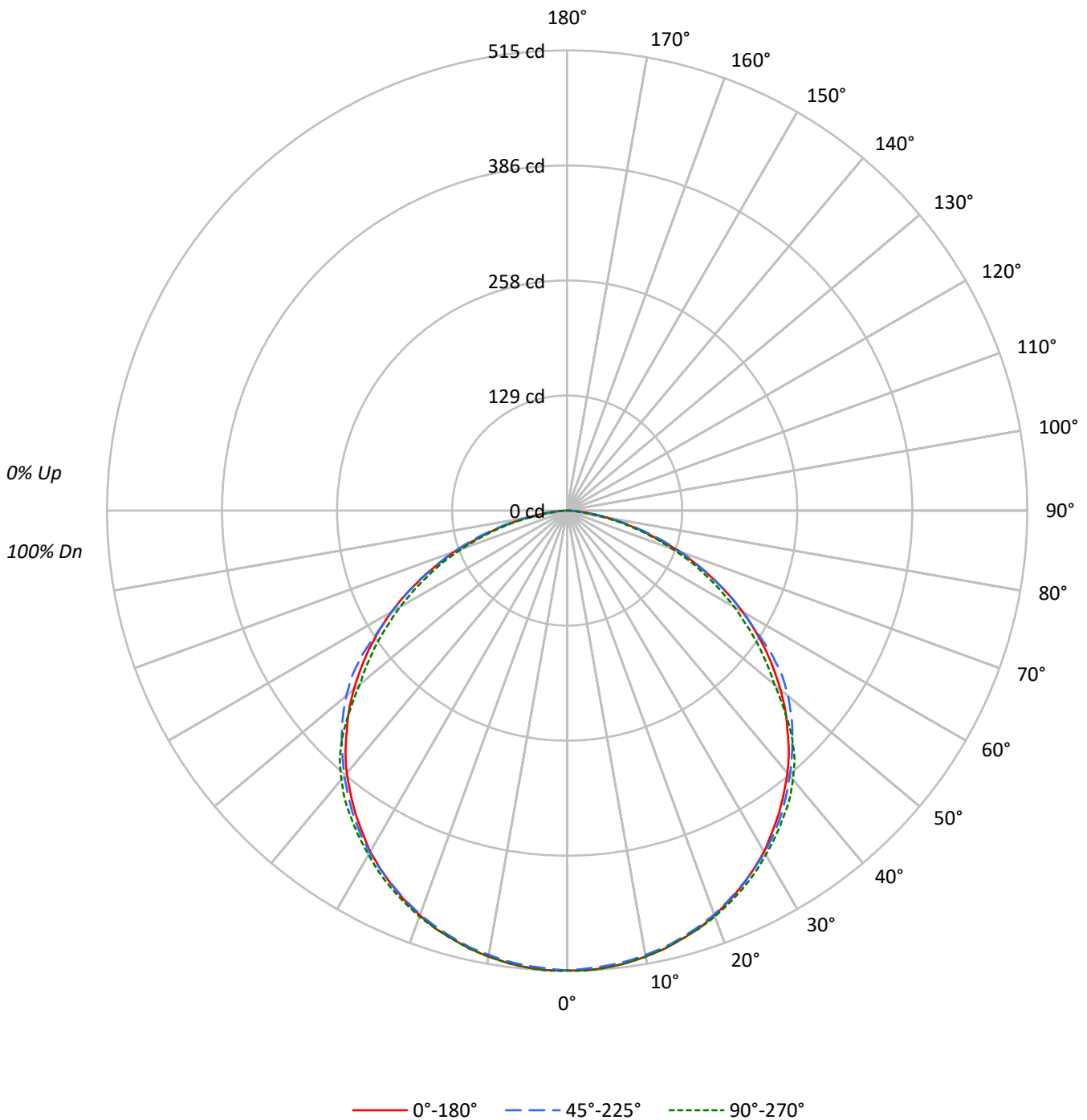
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1385	1385	1385
5°	1387	1381	1387
10°	1385	1380	1385
15°	1383	1379	1383
20°	1380	1377	1385
25°	1375	1374	1384
30°	1370	1373	1382
35°	1358	1370	1383
40°	1348	1362	1381
45°	1327	1358	1352
50°	1304	1350	1269
55°	1270	1308	1222
60°	1222	1220	1164
65°	1145	1152	1088
70°	1052	1064	985
75°	884	924	842
80°	700	716	594
85°	460	398	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.3
10°-20°	140.1	9.6
20°-30°	214.0	14.6
30°-40°	261.0	17.8
40°-50°	273.0	18.6
50°-60°	241.7	16.5
60°-70°	178.0	12.1
70°-80°	92.1	6.3
80°-90°	18.4	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°	402.8	27.5
0°-40°	663.9	45.3
0°-60°	1178.5	80.3
0°-90°	1467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	513	513	511	513	513	49
15°	496	496	495	497	496	140
25°	463	463	463	466	466	213
35°	413	414	417	421	421	259
45°	349	352	357	360	355	269
55°	271	276	279	264	260	242
65°	180	191	181	174	171	178
75°	85	91	89	84	81	91
85°	15	16	13	11	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	514.8	514.8	514.8	514.8	514.8
2.5°	514.8	514.8	512.8	514.8	515.3
5°	513.3	513.3	511.3	513.3	513.3
7.5°	510.8	510.3	508.8	510.8	510.8
10°	506.8	506.8	504.9	507.3	506.8
12.5°	502.4	501.9	500.9	502.9	502.4
15°	496.4	496.4	494.9	496.9	496.4
17.5°	490.4	490.0	488.5	490.4	490.4
20°	482.0	481.5	481.0	483.0	483.5
22.5°	473.1	472.6	472.1	475.0	475.0
25°	463.1	463.1	462.6	465.6	466.1
27.5°	452.2	452.2	452.7	456.7	456.2
30°	440.8	440.8	441.8	444.7	444.7
32.5°	426.8	427.8	429.8	433.3	433.3
35°	413.4	414.4	416.9	420.9	420.9
37.5°	398.5	400.0	402.5	407.5	408.5
40°	383.6	384.6	387.6	393.1	393.1
42.5°	367.2	368.2	372.2	377.6	376.7
45°	348.8	351.8	356.8	359.8	355.3
47.5°	331.4	333.4	340.4	336.9	329.4
50°	311.6	315.5	322.5	310.1	303.1
52.5°	291.2	295.7	303.1	285.7	281.7
55°	270.8	276.3	278.8	264.4	260.4
57.5°	249.0	254.9	249.9	241.5	237.5
60°	227.1	234.0	226.6	218.6	216.2
62.5°	204.2	212.2	203.7	196.8	193.3
65°	179.9	190.8	180.9	173.9	170.9
67.5°	156.0	167.5	157.0	151.1	149.1
70°	133.7	140.1	135.2	129.2	125.2
72.5°	106.8	113.3	112.3	105.8	103.4
75°	85.0	90.9	88.9	83.5	81.0
77.5°	63.1	69.6	67.6	61.1	60.1
80°	45.2	49.7	46.2	40.2	38.3
82.5°	28.3	31.8	27.3	22.9	21.9
85°	14.9	15.9	12.9	11.4	10.9
87.5°	5.0	5.5	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)