

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: P259090

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259090
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-LD5-39-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1958.0 lumens
Efficiency: N/A
Efficacy: 61.7 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

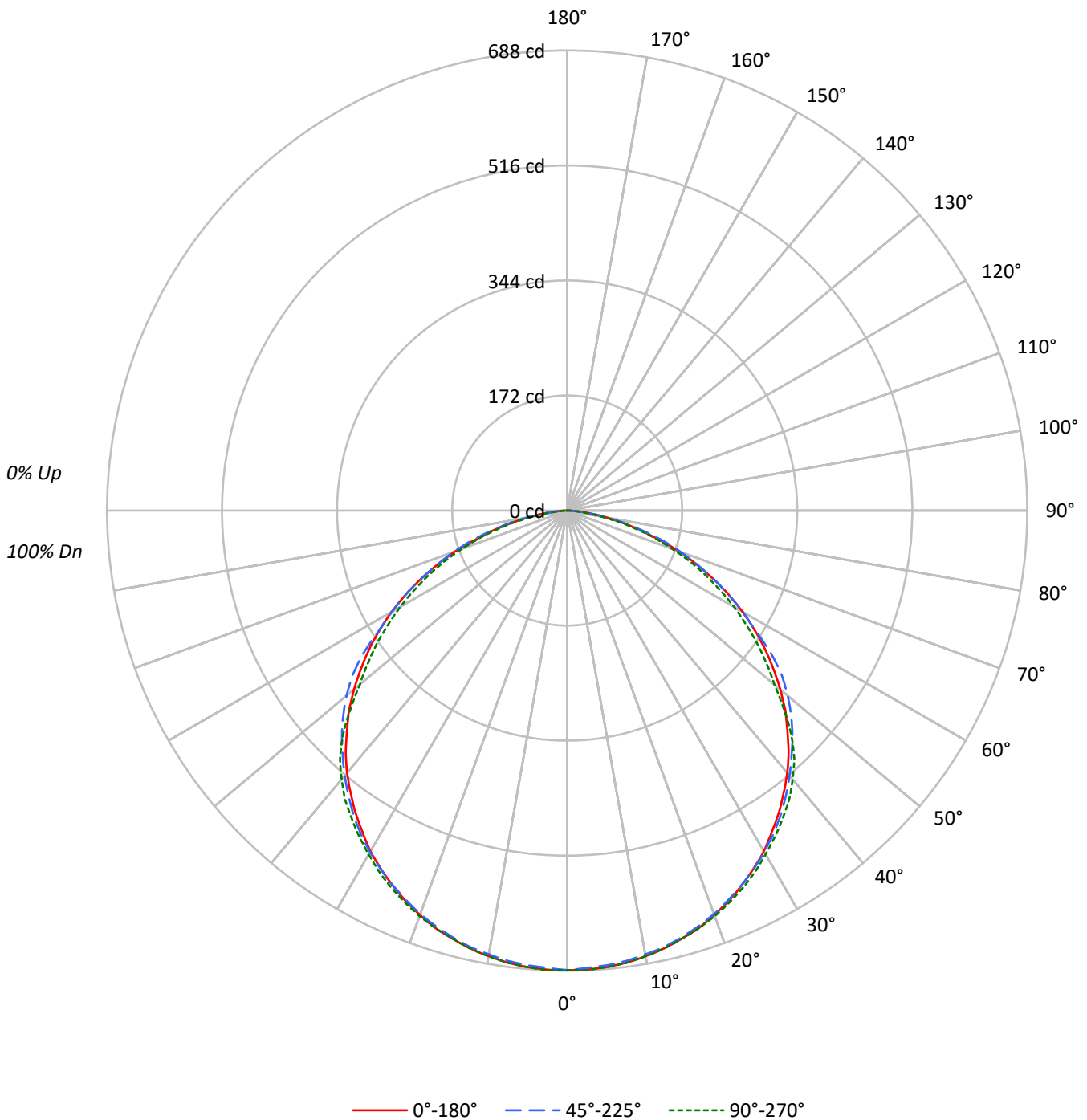
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1849	1849	1849
5°	1851	1844	1851
10°	1849	1841	1849
15°	1846	1840	1846
20°	1842	1838	1848
25°	1835	1833	1847
30°	1828	1832	1844
35°	1813	1828	1845
40°	1799	1817	1843
45°	1772	1812	1805
50°	1741	1802	1694
55°	1696	1746	1630
60°	1631	1628	1553
65°	1529	1537	1452
70°	1404	1419	1315
75°	1179	1234	1124
80°	936	956	792
85°	614	531	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.3
10°-20°	187.0	9.6
20°-30°	285.6	14.6
30°-40°	348.4	17.8
40°-50°	364.3	18.6
50°-60°	322.6	16.5
60°-70°	237.5	12.1
70°-80°	123.0	6.3
80°-90°	24.5	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°	537.7	27.5
0°-40°	886.1	45.3
0°-60°	1573.0	80.3
0°-90°	1958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	685	685	682	685	685	65
15°	663	663	661	663	663	187
25°	618	618	618	621	622	285
35°	552	553	556	562	562	345
45°	466	470	476	480	474	359
55°	362	369	372	353	348	322
65°	240	255	241	232	228	238
75°	113	121	119	111	108	121
85°	20	21	17	15	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.1	687.1	687.1	687.1	687.1
2.5°	687.1	687.1	684.4	687.1	687.8
5°	685.1	685.1	682.5	685.1	685.1
7.5°	681.8	681.1	679.1	681.8	681.8
10°	676.5	676.5	673.8	677.1	676.5
12.5°	670.5	669.9	668.5	671.2	670.5
15°	662.6	662.6	660.6	663.2	662.6
17.5°	654.6	653.9	651.9	654.6	654.6
20°	643.3	642.7	642.0	644.7	645.3
22.5°	631.4	630.7	630.1	634.0	634.0
25°	618.1	618.1	617.5	621.4	622.1
27.5°	603.5	603.5	604.2	609.5	608.8
30°	588.3	588.3	589.6	593.6	593.6
32.5°	569.7	571.0	573.7	578.3	578.3
35°	551.8	553.1	556.4	561.7	561.7
37.5°	531.9	533.9	537.2	543.8	545.2
40°	512.0	513.3	517.3	524.6	524.6
42.5°	490.1	491.4	496.8	504.0	502.7
45°	465.6	469.6	476.2	480.2	474.2
47.5°	442.4	445.0	454.3	449.7	439.7
50°	415.8	421.1	430.4	413.8	404.6
52.5°	388.6	394.6	404.6	381.4	376.0
55°	361.5	368.8	372.1	352.8	347.5
57.5°	332.3	340.2	333.6	322.3	317.0
60°	303.1	312.4	302.4	291.8	288.5
62.5°	272.6	283.2	271.9	262.6	258.0
65°	240.1	254.7	241.4	232.1	228.1
67.5°	208.3	223.5	209.6	201.6	199.0
70°	178.4	187.0	180.4	172.4	167.1
72.5°	142.6	151.2	149.9	141.3	137.9
75°	113.4	121.4	118.7	111.4	108.1
77.5°	84.2	92.9	90.2	81.6	80.2
80°	60.4	66.3	61.7	53.7	51.1
82.5°	37.8	42.4	36.5	30.5	29.2
85°	19.9	21.2	17.2	15.3	14.6
87.5°	6.6	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)