

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: P259051

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259051
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-LD5-29-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: 1897.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

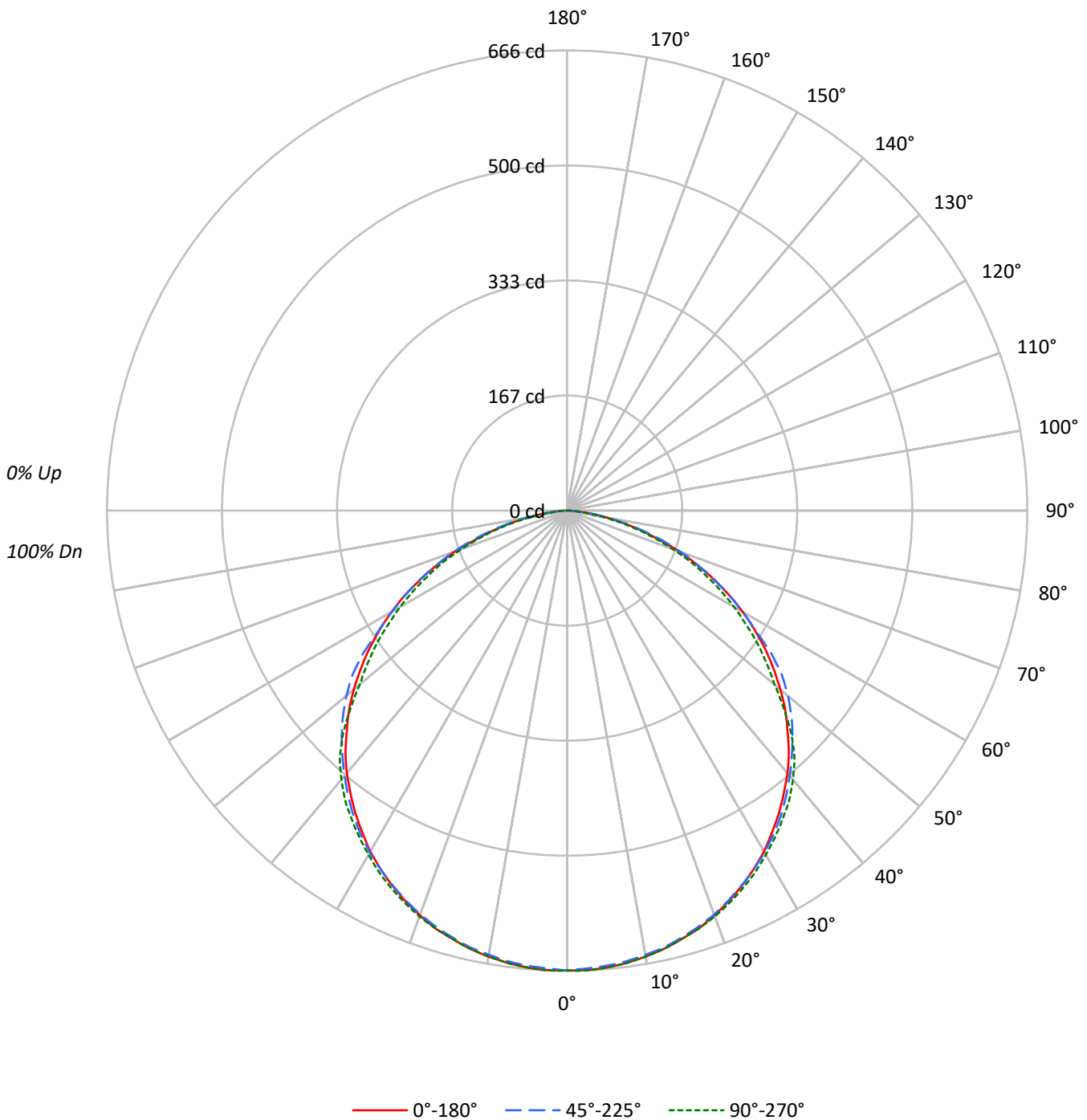
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1791	1791	1791
5°	1793	1786	1793
10°	1791	1784	1791
15°	1788	1783	1788
20°	1785	1781	1790
25°	1778	1776	1790
30°	1771	1775	1787
35°	1756	1771	1788
40°	1743	1761	1786
45°	1717	1756	1748
50°	1687	1746	1641
55°	1643	1691	1580
60°	1580	1577	1504
65°	1481	1489	1407
70°	1360	1375	1274
75°	1143	1196	1089
80°	907	927	767
85°	596	516	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.3
10°-20°	181.2	9.6
20°-30°	276.7	14.6
30°-40°	337.6	17.8
40°-50°	353.0	18.6
50°-60°	312.5	16.5
60°-70°	230.1	12.1
70°-80°	119.1	6.3
80°-90°	23.7	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°	520.9	27.5
0°-40°	858.5	45.3
0°-60°	1524.0	80.3
0°-90°	1897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	664	664	661	664	664	63
15°	642	642	640	643	642	181
25°	599	599	598	602	603	276
35°	535	536	539	544	544	334
45°	451	455	461	465	459	348
55°	350	357	360	342	337	312
65°	233	247	234	225	221	230
75°	110	118	115	108	105	117
85°	19	21	17	15	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.7	665.7	665.7	665.7	665.7
2.5°	665.7	665.7	663.1	665.7	666.3
5°	663.8	663.8	661.2	663.8	663.8
7.5°	660.6	659.9	658.0	660.6	660.6
10°	655.4	655.4	652.8	656.1	655.4
12.5°	649.6	649.0	647.7	650.3	649.6
15°	641.9	641.9	640.0	642.6	641.9
17.5°	634.2	633.6	631.6	634.2	634.2
20°	623.3	622.6	622.0	624.6	625.2
22.5°	611.7	611.1	610.4	614.3	614.3
25°	598.9	598.9	598.2	602.1	602.7
27.5°	584.7	584.7	585.4	590.5	589.9
30°	569.9	569.9	571.2	575.1	575.1
32.5°	552.0	553.2	555.8	560.3	560.3
35°	534.6	535.9	539.1	544.2	544.2
37.5°	515.3	517.3	520.5	526.9	528.2
40°	496.1	497.3	501.2	508.3	508.3
42.5°	474.9	476.1	481.3	488.3	487.1
45°	451.1	454.9	461.4	465.2	459.4
47.5°	428.6	431.2	440.2	435.7	426.0
50°	402.9	408.0	417.0	401.0	392.0
52.5°	376.5	382.3	392.0	369.5	364.3
55°	350.2	357.3	360.5	341.8	336.7
57.5°	321.9	329.6	323.2	312.3	307.1
60°	293.6	302.6	293.0	282.7	279.5
62.5°	264.1	274.4	263.4	254.5	250.0
65°	232.6	246.7	233.9	224.9	221.0
67.5°	201.8	216.5	203.0	195.3	192.8
70°	172.8	181.2	174.8	167.1	161.9
72.5°	138.2	146.5	145.2	136.9	133.7
75°	109.9	117.6	115.0	107.9	104.7
77.5°	81.6	90.0	87.4	79.0	77.7
80°	58.5	64.3	59.8	52.0	49.5
82.5°	36.6	41.1	35.3	29.6	28.3
85°	19.3	20.6	16.7	14.8	14.1
87.5°	6.4	7.1	7.1	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)