

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: P259086

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259086
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-LD5-35-SQP-UNV-L93050-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: 1938.0 lumens
Efficiency: N/A
Efficacy: 69.2 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

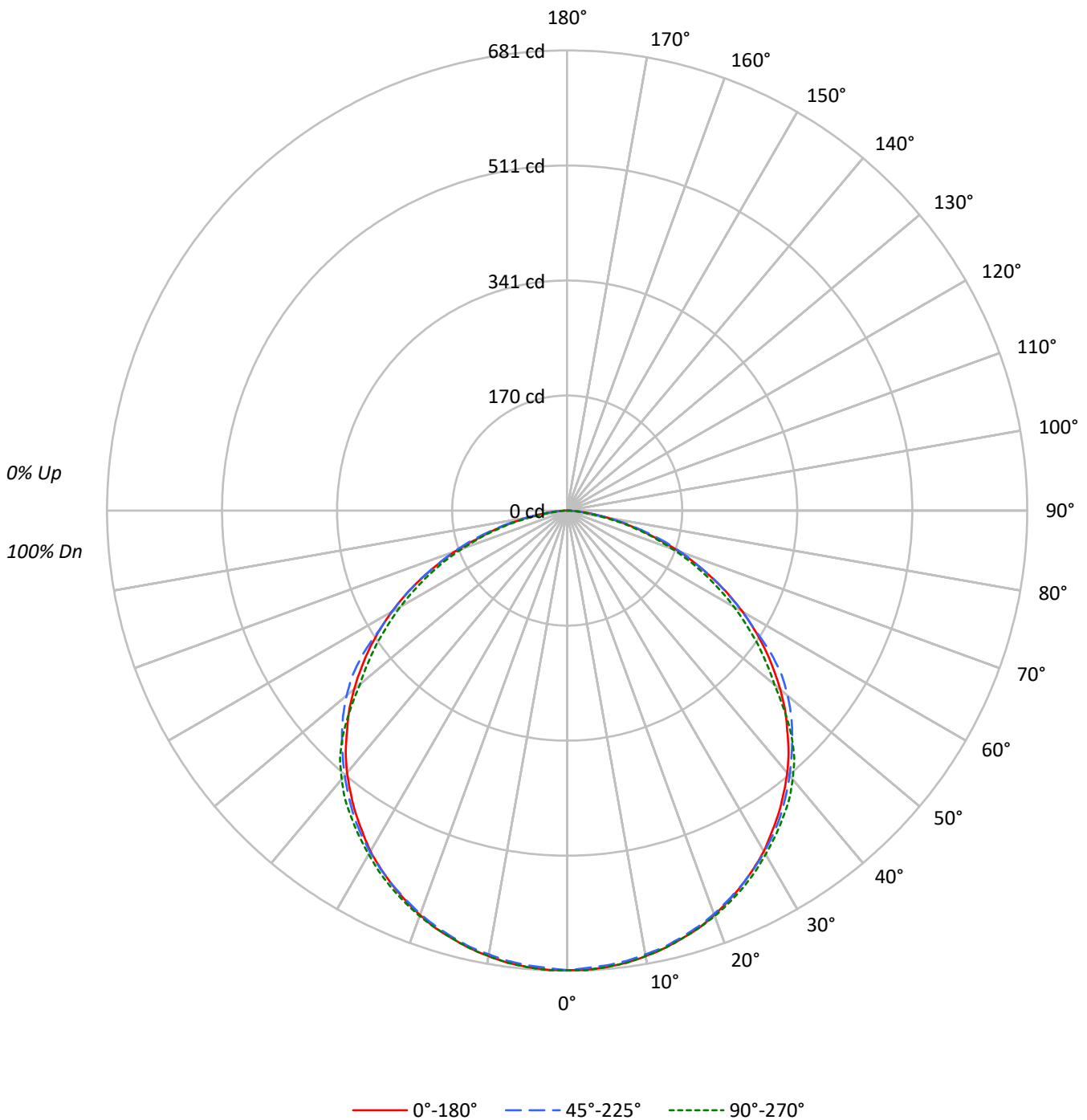
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1830	1830	1830
5°	1832	1825	1832
10°	1830	1822	1830
15°	1827	1821	1827
20°	1824	1820	1829
25°	1817	1815	1828
30°	1809	1813	1826
35°	1794	1809	1827
40°	1780	1799	1824
45°	1754	1794	1786
50°	1723	1783	1676
55°	1679	1728	1614
60°	1615	1611	1537
65°	1513	1521	1438
70°	1389	1405	1301
75°	1168	1222	1112
80°	925	945	783
85°	608	528	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.3
10°-20°	185.1	9.6
20°-30°	282.7	14.6
30°-40°	344.9	17.8
40°-50°	360.6	18.6
50°-60°	319.3	16.5
60°-70°	235.1	12.1
70°-80°	121.7	6.3
80°-90°	24.2	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°	532.2	27.5
0°-40°	877.0	45.3
0°-60°	1556.9	80.3
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	678	678	676	678	678	64
15°	656	656	654	656	656	185
25°	612	612	611	615	616	282
35°	546	548	551	556	556	342
45°	461	465	471	475	469	356
55°	358	365	368	349	344	319
65°	238	252	239	230	226	235
75°	112	120	118	110	107	120
85°	20	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°	680.1	680.1	680.1	680.1	680.1
2.5°	680.1	680.1	677.5	680.1	680.7
5°	678.1	678.1	675.5	678.1	678.1
7.5°	674.8	674.2	672.2	674.8	674.8
10°	669.6	669.6	666.9	670.2	669.6
12.5°	663.7	663.0	661.7	664.3	663.7
15°	655.8	655.8	653.8	656.4	655.8
17.5°	647.9	647.3	645.3	647.9	647.9
20°	636.8	636.1	635.4	638.1	638.7
22.5°	624.9	624.3	623.6	627.6	627.6
25°	611.8	611.8	611.2	615.1	615.7
27.5°	597.4	597.4	598.0	603.3	602.6
30°	582.3	582.3	583.6	587.5	587.5
32.5°	563.9	565.2	567.8	572.4	572.4
35°	546.2	547.5	550.8	556.0	556.0
37.5°	526.5	528.4	531.7	538.3	539.6
40°	506.8	508.1	512.0	519.2	519.2
42.5°	485.1	486.4	491.7	498.9	497.6
45°	460.8	464.8	471.3	475.3	469.4
47.5°	437.8	440.5	449.7	445.1	435.2
50°	411.6	416.8	426.0	409.6	400.4
52.5°	384.7	390.6	400.4	377.5	372.2
55°	357.8	365.0	368.3	349.2	344.0
57.5°	328.9	336.8	330.2	319.0	313.8
60°	300.0	309.2	299.3	288.8	285.6
62.5°	269.8	280.3	269.1	260.0	255.4
65°	237.6	252.1	238.9	229.8	225.8
67.5°	206.1	221.2	207.4	199.6	196.9
70°	176.6	185.1	178.6	170.7	165.4
72.5°	141.1	149.7	148.4	139.8	136.5
75°	112.3	120.1	117.5	110.3	107.0
77.5°	83.4	91.9	89.3	80.7	79.4
80°	59.7	65.6	61.0	53.2	50.5
82.5°	37.4	42.0	36.1	30.2	28.9
85°	19.7	21.0	17.1	15.1	14.4
87.5°	6.6	7.2	7.2	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)