

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: P277504

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2143.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

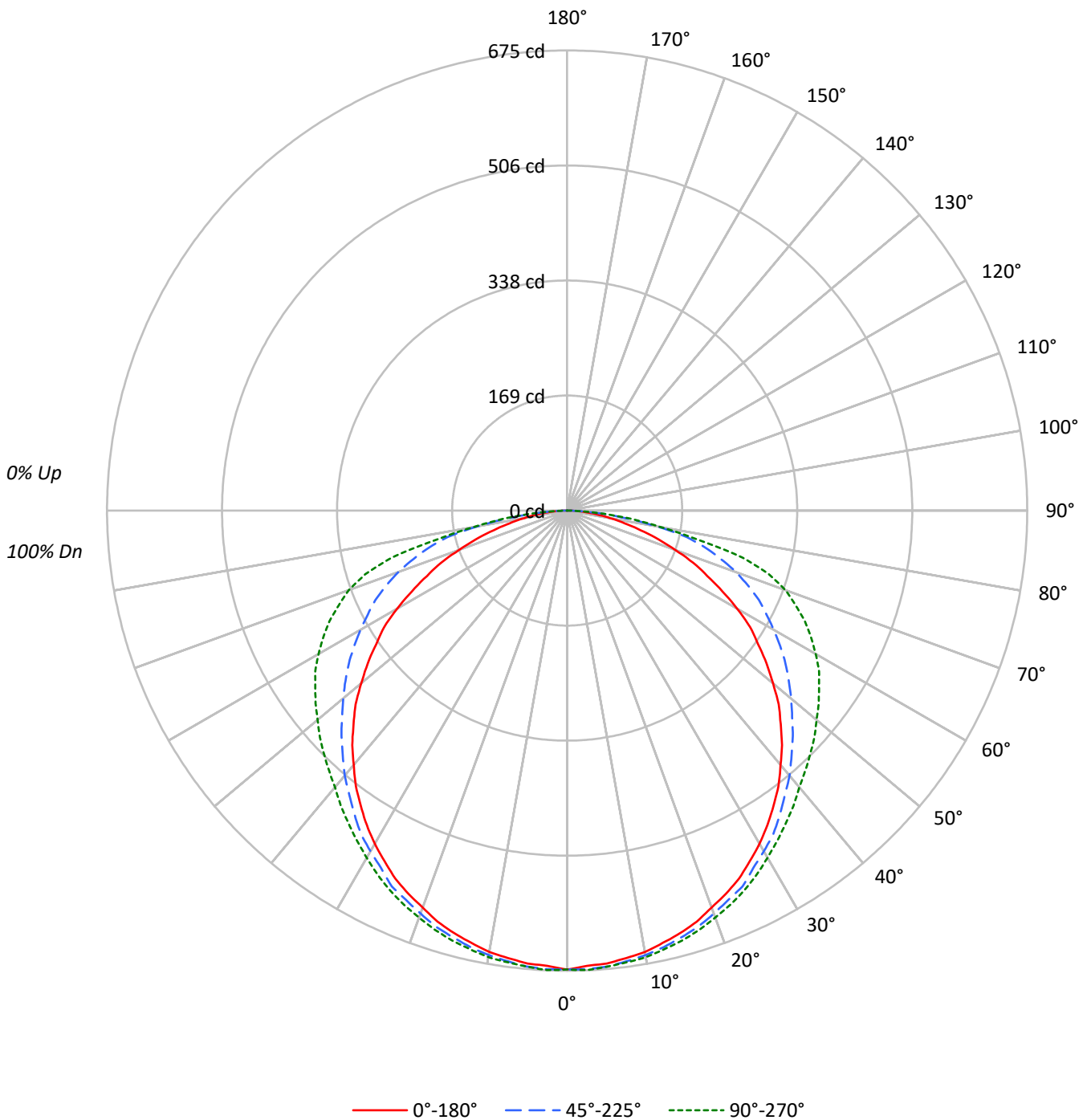
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1812	1812	1812
5°	1801	1814	1814
10°	1796	1809	1818
15°	1787	1805	1818
20°	1774	1801	1819
25°	1769	1807	1825
30°	1754	1793	1827
35°	1735	1787	1838
40°	1711	1783	1861
45°	1686	1782	1920
50°	1650	1795	2000
55°	1605	1834	2115
60°	1553	1884	2265
65°	1445	1978	2450
70°	1327	2072	2679
75°	1163	2180	2770
80°	1001	2077	2174
85°	877	1510	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.0
10°-20°	182.8	8.5
20°-30°	278.9	13.0
30°-40°	340.6	15.9
40°-50°	364.2	17.0
50°-60°	351.5	16.4
60°-70°	302.6	14.1
70°-80°	204.7	9.6
80°-90°	54.0	2.5
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°	525.4	24.5
0°-40°	866.0	40.4
0°-60°	1581.7	73.8
0°-90°	2143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	667	668	672	672	672	63
15°	642	643	648	651	653	181
25°	596	599	608	612	615	274
35°	528	533	544	555	560	330
45°	443	451	468	492	504	342
55°	342	353	391	430	451	307
65°	227	249	311	359	385	226
75°	112	148	210	252	266	120
85°	28	39	49	50	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.2	673.2	673.2	673.2	673.2
2.5°	668.4	670.0	673.2	673.2	674.7
5°	666.8	668.4	671.6	671.6	671.6
7.5°	662.1	663.7	666.8	668.4	668.4
10°	657.4	659.0	662.1	663.7	665.3
12.5°	649.5	651.1	655.8	659.0	659.0
15°	641.6	643.2	647.9	651.1	652.7
17.5°	632.2	635.3	640.0	643.2	644.8
20°	619.6	622.7	629.0	633.7	635.3
22.5°	608.5	611.7	618.0	622.7	625.9
25°	595.9	599.1	608.5	611.7	614.8
27.5°	580.1	583.3	591.2	597.5	602.2
30°	564.4	567.5	577.0	584.9	588.0
32.5°	547.0	551.8	562.8	569.1	573.8
35°	528.1	532.8	543.9	554.9	559.6
37.5°	509.2	513.9	525.0	539.2	545.5
40°	487.1	493.4	507.6	526.5	529.7
42.5°	466.6	474.5	487.1	509.2	517.1
45°	443.0	450.9	468.2	491.9	504.5
47.5°	420.9	428.8	447.7	476.1	491.9
50°	394.1	405.2	428.8	461.9	477.7
52.5°	368.9	378.4	409.9	446.1	465.1
55°	342.1	353.1	391.0	430.4	450.9
57.5°	318.4	327.9	370.5	414.6	438.3
60°	288.5	301.1	350.0	397.3	420.9
62.5°	257.0	275.9	329.5	378.4	403.6
65°	227.0	249.1	310.6	359.4	384.7
67.5°	200.2	223.9	286.9	338.9	362.6
70°	168.7	198.6	263.3	313.7	340.5
72.5°	140.3	173.4	236.5	286.9	310.6
75°	111.9	148.2	209.7	252.2	266.4
77.5°	86.7	121.4	179.7	192.3	193.9
80°	64.6	96.2	134.0	135.6	140.3
82.5°	44.1	67.8	86.7	94.6	96.2
85°	28.4	39.4	48.9	50.4	53.6
87.5°	12.6	14.2	17.3	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)