

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: P277576

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277576
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-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2024.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

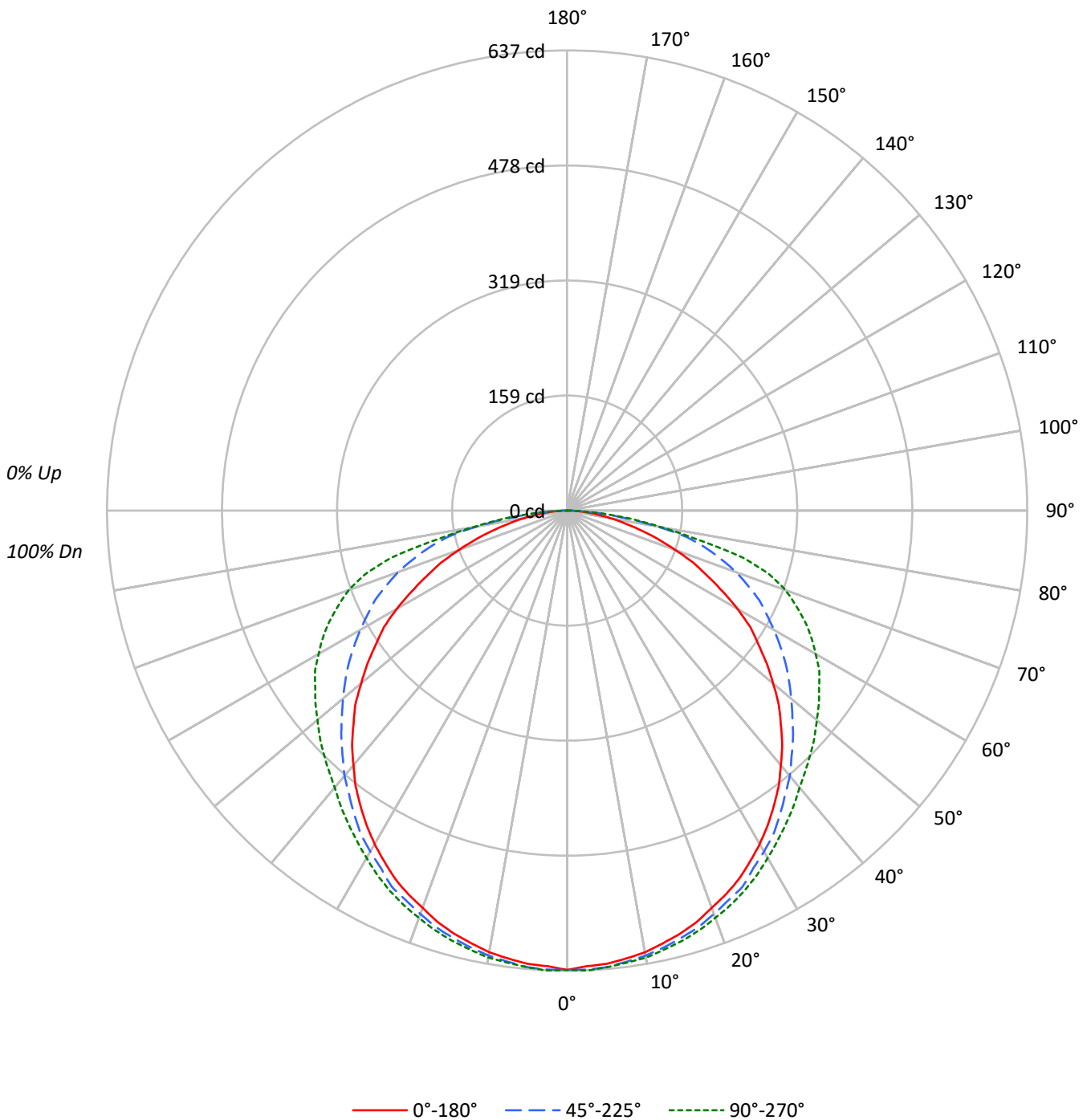
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1711	1711	1711
5°	1701	1713	1713
10°	1697	1709	1717
15°	1688	1705	1717
20°	1676	1701	1718
25°	1671	1706	1724
30°	1656	1693	1726
35°	1639	1688	1736
40°	1616	1684	1757
45°	1592	1683	1813
50°	1558	1696	1888
55°	1516	1733	1998
60°	1467	1779	2139
65°	1365	1868	2313
70°	1253	1957	2530
75°	1099	2059	2616
80°	945	1962	2053
85°	827	1426	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.0
10°-20°	172.7	8.5
20°-30°	263.4	13.0
30°-40°	321.7	15.9
40°-50°	343.9	17.0
50°-60°	332.0	16.4
60°-70°	285.8	14.1
70°-80°	193.3	9.6
80°-90°	51.0	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°	496.3	24.5
0°-40°	817.9	40.4
0°-60°	1493.8	73.8
0°-90°	2024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	630	631	634	634	634	60
15°	606	608	612	615	616	171
25°	563	566	575	578	581	259
35°	499	503	514	524	529	312
45°	418	426	442	464	476	323
55°	323	334	369	406	426	290
65°	214	235	293	340	363	213
75°	106	140	198	238	252	113
85°	27	37	46	48	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.8	635.8	635.8	635.8	635.8
2.5°	631.3	632.8	635.8	635.8	637.3
5°	629.8	631.3	634.3	634.3	634.3
7.5°	625.4	626.8	629.8	631.3	631.3
10°	620.9	622.4	625.4	626.8	628.3
12.5°	613.4	614.9	619.4	622.4	622.4
15°	606.0	607.5	612.0	614.9	616.4
17.5°	597.1	600.0	604.5	607.5	609.0
20°	585.1	588.1	594.1	598.6	600.0
22.5°	574.7	577.7	583.7	588.1	591.1
25°	562.8	565.8	574.7	577.7	580.7
27.5°	547.9	550.9	558.3	564.3	568.8
30°	533.0	536.0	544.9	552.4	555.4
32.5°	516.7	521.1	531.5	537.5	542.0
35°	498.8	503.3	513.7	524.1	528.6
37.5°	480.9	485.4	495.8	509.2	515.2
40°	460.1	466.0	479.4	497.3	500.3
42.5°	440.7	448.2	460.1	480.9	488.4
45°	418.4	425.8	442.2	464.5	476.5
47.5°	397.5	405.0	422.9	449.7	464.5
50°	372.2	382.7	405.0	436.3	451.1
52.5°	348.4	357.3	387.1	421.4	439.2
55°	323.1	333.5	369.3	406.5	425.8
57.5°	300.8	309.7	349.9	391.6	413.9
60°	272.5	284.4	330.5	375.2	397.5
62.5°	242.7	260.6	311.2	357.3	381.2
65°	214.4	235.3	293.3	339.5	363.3
67.5°	189.1	211.4	271.0	320.1	342.5
70°	159.3	187.6	248.7	296.3	321.6
72.5°	132.5	163.8	223.3	271.0	293.3
75°	105.7	140.0	198.0	238.2	251.6
77.5°	81.9	114.6	169.7	181.6	183.1
80°	61.0	90.8	126.6	128.0	132.5
82.5°	41.7	64.0	81.9	89.3	90.8
85°	26.8	37.2	46.2	47.6	50.6
87.5°	11.9	13.4	16.4	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)