

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: P277503

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277503
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-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: 2025.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

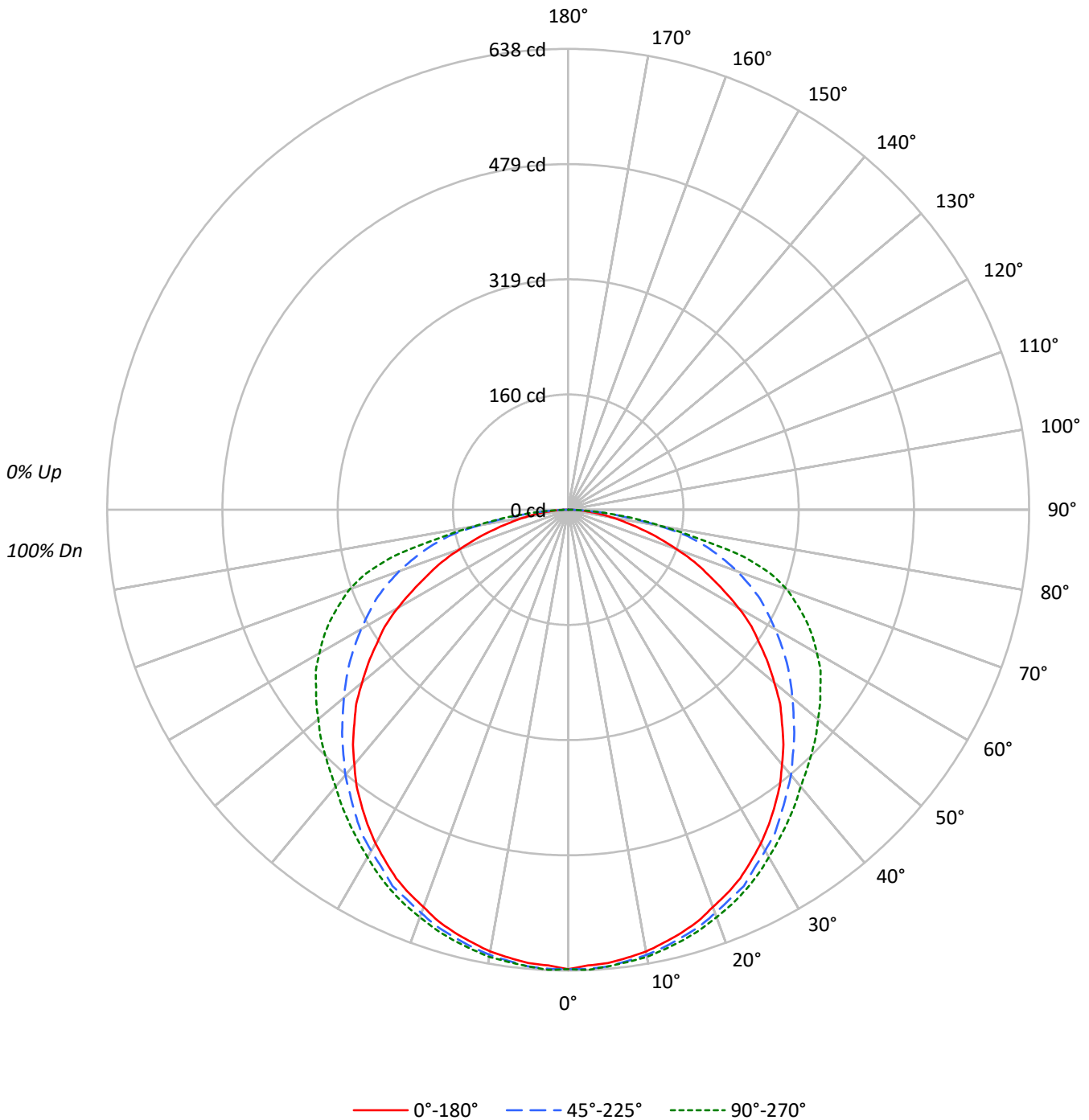
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1712	1712	1712
5°	1702	1714	1714
10°	1697	1710	1718
15°	1689	1706	1718
20°	1676	1702	1719
25°	1672	1707	1725
30°	1657	1694	1726
35°	1639	1688	1737
40°	1617	1685	1758
45°	1593	1684	1814
50°	1559	1696	1890
55°	1517	1733	1999
60°	1467	1780	2140
65°	1366	1869	2315
70°	1254	1958	2532
75°	1100	2060	2618
80°	947	1962	2055
85°	827	1426	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	172.8	8.5
20°-30°	263.6	13.0
30°-40°	321.8	15.9
40°-50°	344.1	17.0
50°-60°	332.1	16.4
60°-70°	285.9	14.1
70°-80°	193.4	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°	496.5	24.5
0°-40°	818.3	40.4
0°-60°	1494.6	73.8
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	630	632	635	635	635	60
15°	606	608	612	615	617	171
25°	563	566	575	578	581	259
35°	499	504	514	524	529	312
45°	419	426	442	465	477	323
55°	323	334	369	407	426	290
65°	214	235	294	340	364	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°	636.1	636.1	636.1	636.1	636.1
2.5°	631.6	633.1	636.1	636.1	637.6
5°	630.1	631.6	634.6	634.6	634.6
7.5°	625.7	627.1	630.1	631.6	631.6
10°	621.2	622.7	625.7	627.1	628.6
12.5°	613.7	615.2	619.7	622.7	622.7
15°	606.3	607.8	612.3	615.2	616.7
17.5°	597.4	600.3	604.8	607.8	609.3
20°	585.4	588.4	594.4	598.8	600.3
22.5°	575.0	578.0	583.9	588.4	591.4
25°	563.1	566.1	575.0	578.0	581.0
27.5°	548.2	551.2	558.6	564.6	569.1
30°	533.3	536.3	545.2	552.7	555.6
32.5°	516.9	521.4	531.8	537.8	542.2
35°	499.0	503.5	513.9	524.4	528.8
37.5°	481.2	485.6	496.1	509.5	515.4
40°	460.3	466.3	479.7	497.5	500.5
42.5°	440.9	448.4	460.3	481.2	488.6
45°	418.6	426.0	442.4	464.8	476.7
47.5°	397.7	405.2	423.1	449.9	464.8
50°	372.4	382.8	405.2	436.5	451.4
52.5°	348.6	357.5	387.3	421.6	439.5
55°	323.3	333.7	369.4	406.7	426.0
57.5°	300.9	309.9	350.1	391.8	414.1
60°	272.6	284.5	330.7	375.4	397.7
62.5°	242.8	260.7	311.3	357.5	381.4
65°	214.5	235.4	293.5	339.6	363.5
67.5°	189.2	211.5	271.1	320.3	342.6
70°	159.4	187.7	248.8	296.4	321.8
72.5°	132.6	163.9	223.5	271.1	293.5
75°	105.8	140.0	198.1	238.3	251.8
77.5°	81.9	114.7	169.8	181.7	183.2
80°	61.1	90.9	126.6	128.1	132.6
82.5°	41.7	64.1	81.9	89.4	90.9
85°	26.8	37.2	46.2	47.7	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)