

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: P277633

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277633
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-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 74.3 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

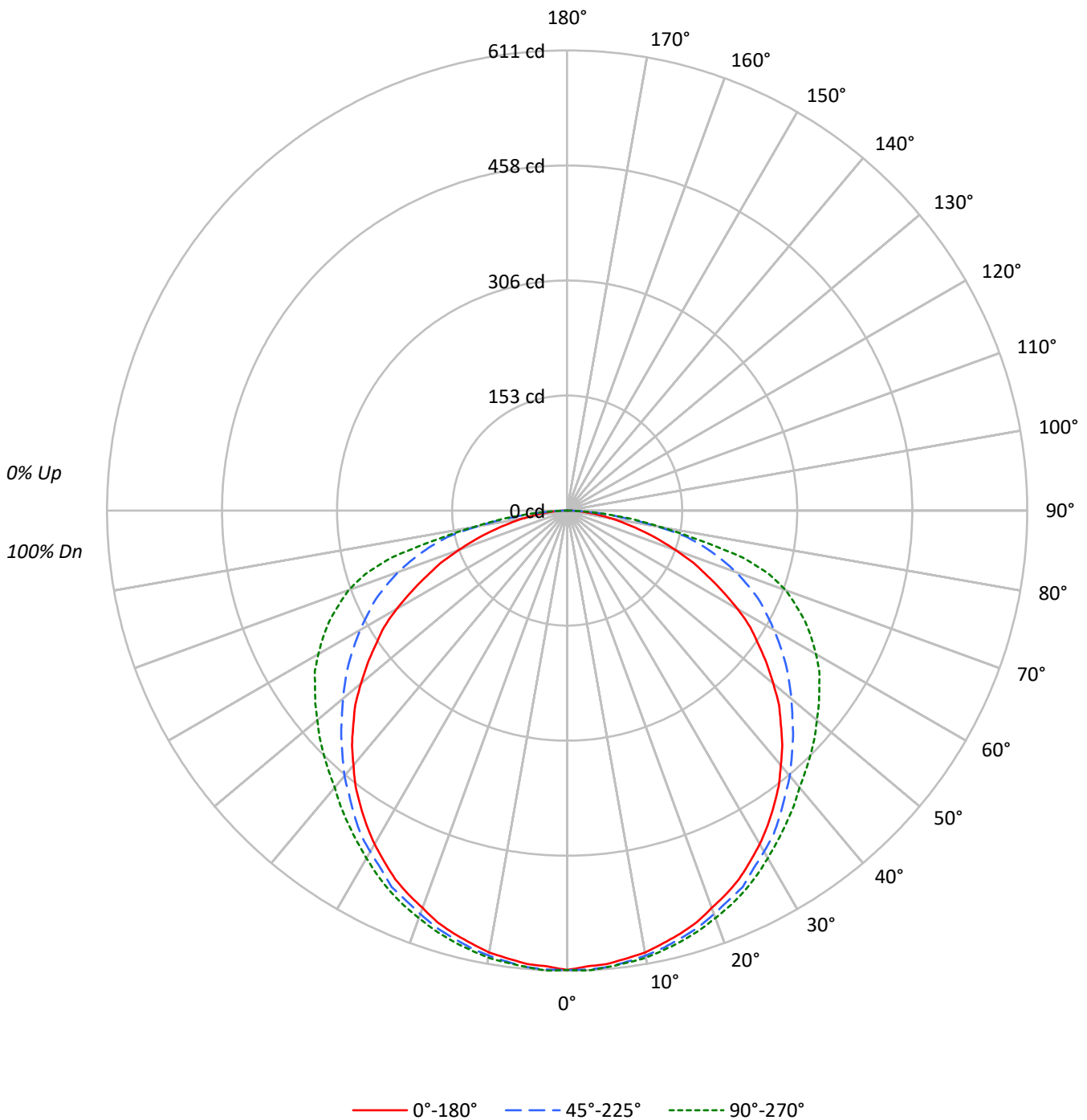
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1641	1641	1641
5°	1632	1644	1644
10°	1628	1639	1647
15°	1620	1636	1648
20°	1608	1632	1649
25°	1603	1637	1654
30°	1589	1625	1656
35°	1572	1619	1666
40°	1551	1616	1686
45°	1528	1615	1740
50°	1495	1627	1812
55°	1454	1662	1917
60°	1407	1707	2053
65°	1310	1792	2220
70°	1203	1877	2428
75°	1054	1975	2510
80°	908	1881	1970
85°	794	1368	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.0
10°-20°	165.7	8.5
20°-30°	252.8	13.0
30°-40°	308.6	15.9
40°-50°	330.0	17.0
50°-60°	318.5	16.4
60°-70°	274.2	14.1
70°-80°	185.5	9.6
80°-90°	48.9	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°	476.1	24.5
0°-40°	784.8	40.4
0°-60°	1433.3	73.8
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	604	606	609	609	609	57
15°	581	583	587	590	591	164
25°	540	543	551	554	557	249
35°	479	483	493	503	507	299
45°	401	409	424	446	457	310
55°	310	320	354	390	409	278
65°	206	226	281	326	349	205
75°	101	134	190	229	241	109
85°	26	36	44	46	49	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.0	610.0	610.0	610.0	610.0
2.5°	605.7	607.2	610.0	610.0	611.4
5°	604.3	605.7	608.6	608.6	608.6
7.5°	600.0	601.4	604.3	605.7	605.7
10°	595.7	597.2	600.0	601.4	602.9
12.5°	588.6	590.0	594.3	597.2	597.2
15°	581.4	582.9	587.2	590.0	591.4
17.5°	572.9	575.7	580.0	582.9	584.3
20°	561.4	564.3	570.0	574.3	575.7
22.5°	551.4	554.3	560.0	564.3	567.2
25°	540.0	542.9	551.4	554.3	557.2
27.5°	525.7	528.6	535.7	541.4	545.7
30°	511.4	514.3	522.9	530.0	532.9
32.5°	495.7	500.0	510.0	515.7	520.0
35°	478.6	482.9	492.9	502.9	507.2
37.5°	461.4	465.7	475.7	488.6	494.3
40°	441.4	447.2	460.0	477.2	480.0
42.5°	422.9	430.0	441.4	461.4	468.6
45°	401.4	408.6	424.3	445.7	457.2
47.5°	381.4	388.6	405.7	431.4	445.7
50°	357.2	367.2	388.6	418.6	432.9
52.5°	334.3	342.9	371.4	404.3	421.4
55°	310.0	320.0	354.3	390.0	408.6
57.5°	288.6	297.2	335.7	375.7	397.2
60°	261.4	272.9	317.2	360.0	381.4
62.5°	232.9	250.0	298.6	342.9	365.7
65°	205.7	225.7	281.4	325.7	348.6
67.5°	181.4	202.9	260.0	307.2	328.6
70°	152.9	180.0	238.6	284.3	308.6
72.5°	127.1	157.1	214.3	260.0	281.4
75°	101.4	134.3	190.0	228.6	241.4
77.5°	78.6	110.0	162.9	174.3	175.7
80°	58.6	87.1	121.4	122.9	127.1
82.5°	40.0	61.4	78.6	85.7	87.1
85°	25.7	35.7	44.3	45.7	48.6
87.5°	11.4	12.9	15.7	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)