

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: P277577

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277577
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-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: 2093.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

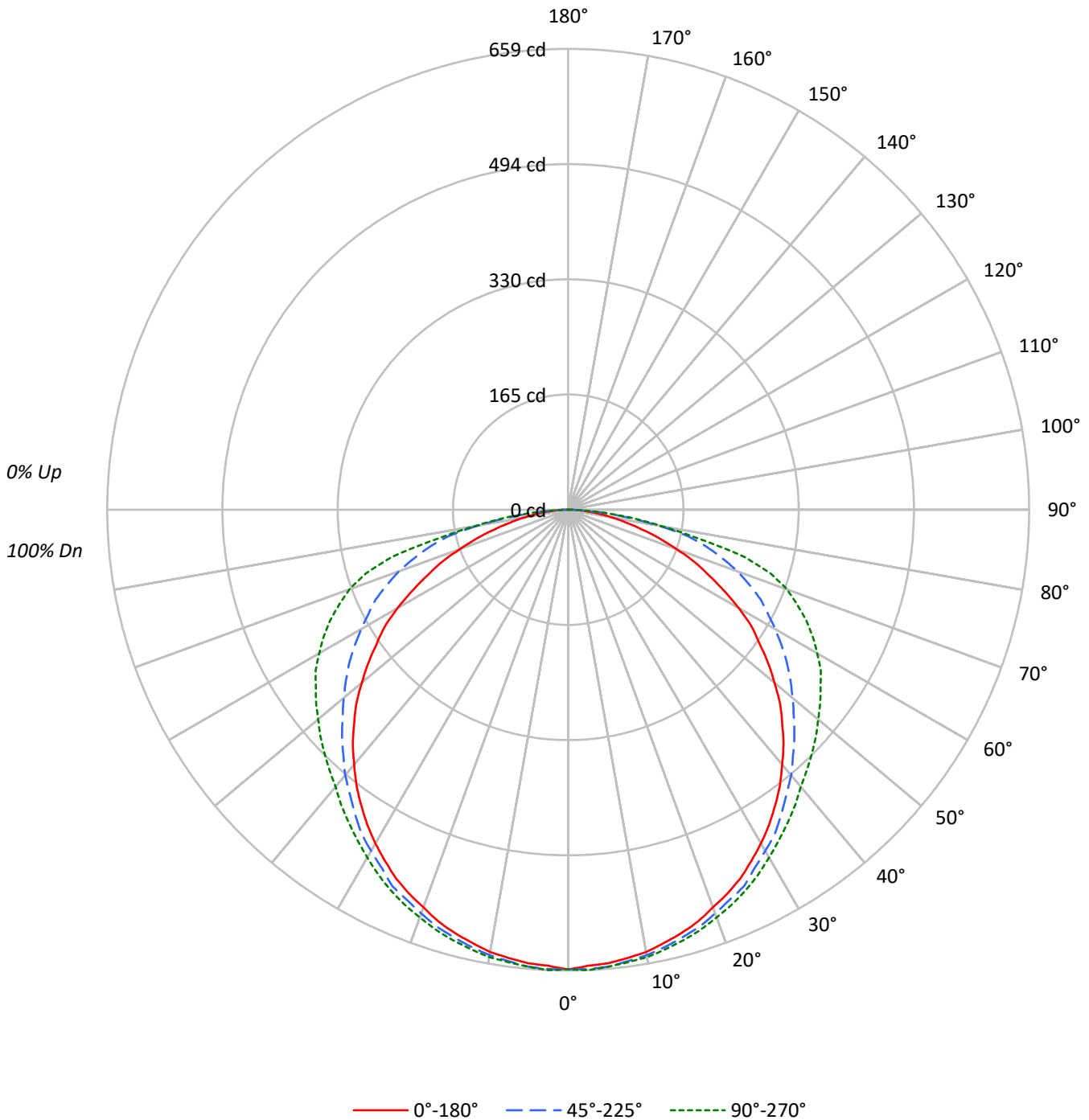
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1769	1769	1769
5°	1759	1772	1772
10°	1755	1767	1775
15°	1746	1763	1776
20°	1733	1759	1777
25°	1728	1765	1783
30°	1713	1751	1785
35°	1694	1745	1796
40°	1671	1742	1817
45°	1647	1740	1875
50°	1611	1753	1953
55°	1567	1791	2066
60°	1517	1840	2213
65°	1412	1931	2392
70°	1296	2023	2617
75°	1136	2129	2705
80°	978	2029	2123
85°	855	1473	1615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.0
10°-20°	178.6	8.5
20°-30°	272.4	13.0
30°-40°	332.6	15.9
40°-50°	355.7	17.0
50°-60°	343.3	16.4
60°-70°	295.5	14.1
70°-80°	199.9	9.6
80°-90°	52.8	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°	513.2	24.5
0°-40°	845.8	40.4
0°-60°	1544.8	73.8
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	651	653	656	656	656	62
15°	627	628	633	636	637	177
25°	582	585	594	597	600	268
35°	516	520	531	542	547	323
45°	433	440	457	480	493	334
55°	334	345	382	420	440	299
65°	222	243	303	351	376	220
75°	109	145	205	246	260	117
85°	28	38	48	49	52	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657.4	657.4	657.4	657.4	657.4
2.5°	652.8	654.4	657.4	657.4	659.0
5°	651.3	652.8	655.9	655.9	655.9
7.5°	646.7	648.2	651.3	652.8	652.8
10°	642.1	643.6	646.7	648.2	649.7
12.5°	634.4	635.9	640.5	643.6	643.6
15°	626.7	628.2	632.8	635.9	637.4
17.5°	617.4	620.5	625.1	628.2	629.7
20°	605.1	608.2	614.3	619.0	620.5
22.5°	594.3	597.4	603.6	608.2	611.3
25°	582.0	585.1	594.3	597.4	600.5
27.5°	566.6	569.7	577.4	583.5	588.2
30°	551.2	554.3	563.5	571.2	574.3
32.5°	534.3	538.9	549.7	555.8	560.4
35°	515.8	520.4	531.2	542.0	546.6
37.5°	497.3	501.9	512.7	526.6	532.7
40°	475.8	481.9	495.8	514.3	517.3
42.5°	455.7	463.4	475.8	497.3	505.0
45°	432.7	440.4	457.3	480.4	492.7
47.5°	411.1	418.8	437.3	465.0	480.4
50°	384.9	395.7	418.8	451.1	466.5
52.5°	360.3	369.5	400.3	435.7	454.2
55°	334.1	344.9	381.8	420.3	440.4
57.5°	311.0	320.3	361.8	404.9	428.0
60°	281.8	294.1	341.8	388.0	411.1
62.5°	251.0	269.4	321.8	369.5	394.2
65°	221.7	243.3	303.3	351.0	375.7
67.5°	195.5	218.6	280.2	331.0	354.1
70°	164.7	194.0	257.1	306.4	332.6
72.5°	137.0	169.4	231.0	280.2	303.3
75°	109.3	144.7	204.8	246.4	260.2
77.5°	84.7	118.6	175.5	187.8	189.4
80°	63.1	93.9	130.9	132.4	137.0
82.5°	43.1	66.2	84.7	92.4	93.9
85°	27.7	38.5	47.7	49.3	52.3
87.5°	12.3	13.9	16.9	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)