

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: P277582

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277582
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2234.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

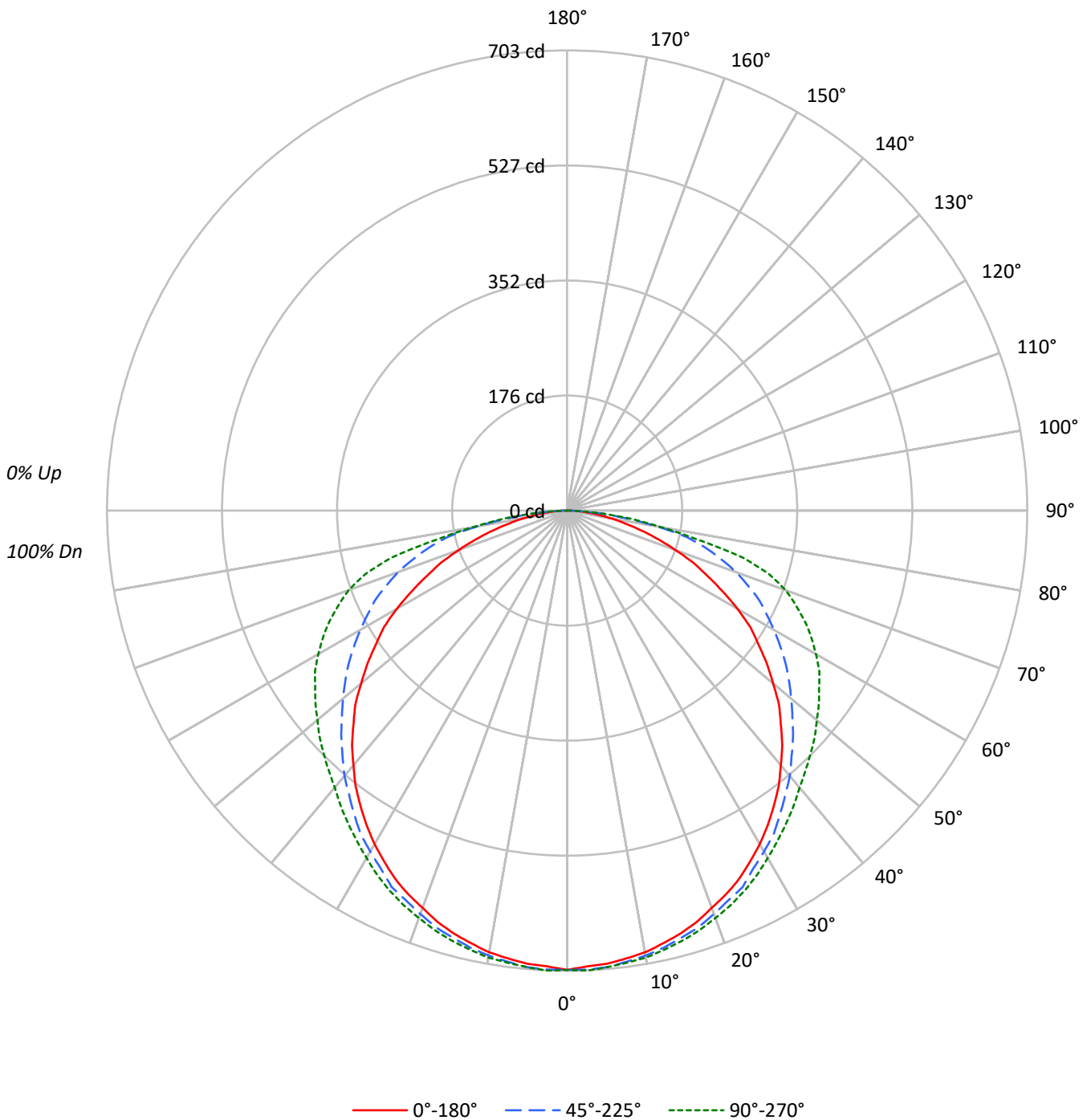
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1888	1888	1888
5°	1878	1891	1891
10°	1873	1886	1895
15°	1863	1882	1896
20°	1850	1878	1897
25°	1844	1884	1903
30°	1828	1869	1905
35°	1808	1863	1917
40°	1784	1859	1940
45°	1757	1858	2001
50°	1720	1871	2085
55°	1673	1912	2205
60°	1618	1963	2362
65°	1507	2062	2553
70°	1383	2160	2793
75°	1213	2273	2887
80°	1044	2165	2267
85°	914	1572	1726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.0
10°-20°	190.6	8.5
20°-30°	290.8	13.0
30°-40°	355.1	15.9
40°-50°	379.6	17.0
50°-60°	366.4	16.4
60°-70°	315.4	14.1
70°-80°	213.4	9.6
80°-90°	56.3	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°	547.7	24.5
0°-40°	902.8	40.4
0°-60°	1648.8	73.8
0°-90°	2234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	695	697	700	700	700	66
15°	669	670	675	679	680	189
25°	621	624	634	638	641	286
35°	550	556	567	578	583	344
45°	462	470	488	513	526	356
55°	357	368	408	449	470	320
65°	237	260	324	375	401	235
75°	117	154	219	263	278	125
85°	30	41	51	53	56	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.7	701.7	701.7	701.7	701.7
2.5°	696.8	698.5	701.7	701.7	703.4
5°	695.2	696.8	700.1	700.1	700.1
7.5°	690.2	691.9	695.2	696.8	696.8
10°	685.3	686.9	690.2	691.9	693.5
12.5°	677.1	678.7	683.7	686.9	686.9
15°	668.9	670.5	675.4	678.7	680.4
17.5°	659.0	662.3	667.2	670.5	672.2
20°	645.9	649.1	655.7	660.7	662.3
22.5°	634.4	637.6	644.2	649.1	652.4
25°	621.2	624.5	634.4	637.6	640.9
27.5°	604.8	608.1	616.3	622.9	627.8
30°	588.3	591.6	601.5	609.7	613.0
32.5°	570.3	575.2	586.7	593.3	598.2
35°	550.5	555.5	567.0	578.5	583.4
37.5°	530.8	535.8	547.3	562.0	568.6
40°	507.8	514.4	529.2	548.9	552.2
42.5°	486.5	494.7	507.8	530.8	539.0
45°	461.8	470.0	488.1	512.7	525.9
47.5°	438.8	447.0	466.7	496.3	512.7
50°	410.9	422.4	447.0	481.5	498.0
52.5°	384.6	394.4	427.3	465.1	484.8
55°	356.6	368.1	407.6	448.7	470.0
57.5°	332.0	341.8	386.2	432.2	456.9
60°	300.7	313.9	364.8	414.1	438.8
62.5°	267.9	287.6	343.5	394.4	420.7
65°	236.7	259.7	323.8	374.7	401.0
67.5°	208.7	233.4	299.1	353.3	378.0
70°	175.8	207.1	274.5	327.0	355.0
72.5°	146.3	180.8	246.5	299.1	323.8
75°	116.7	154.5	218.6	262.9	277.7
77.5°	90.4	126.5	187.3	200.5	202.1
80°	67.4	100.2	139.7	141.3	146.3
82.5°	46.0	70.7	90.4	98.6	100.2
85°	29.6	41.1	50.9	52.6	55.9
87.5°	13.1	14.8	18.1	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)