

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: P277646

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277646
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: 22CZ2-39HE-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2331.0 lumens
Efficiency: N/A
Efficacy: 73.9 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

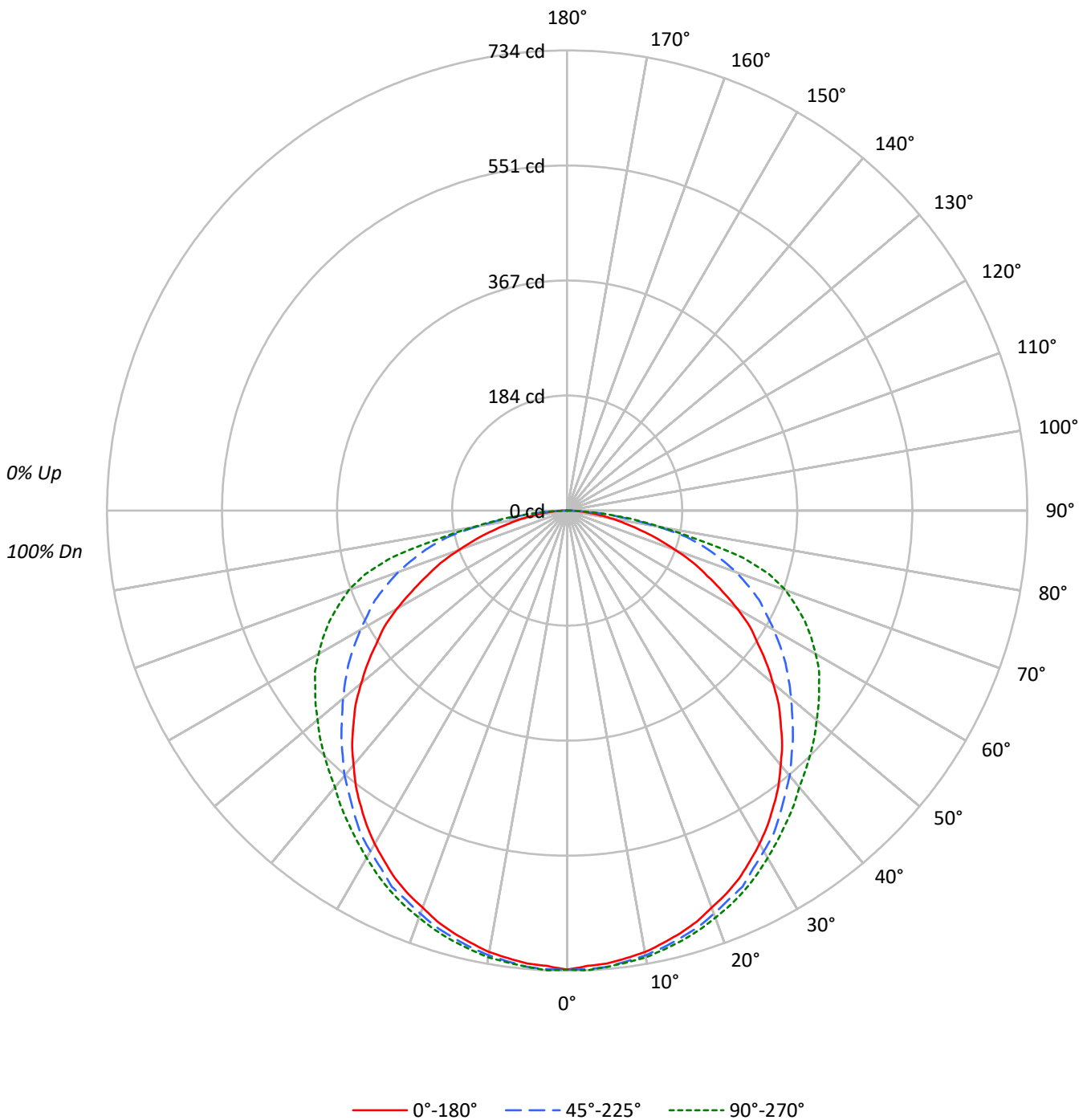
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1970	1970	1970
5°	1959	1973	1973
10°	1954	1968	1977
15°	1944	1964	1978
20°	1930	1959	1979
25°	1925	1965	1986
30°	1908	1950	1987
35°	1887	1943	2000
40°	1861	1940	2024
45°	1834	1938	2088
50°	1795	1953	2175
55°	1746	1995	2301
60°	1689	2049	2464
65°	1572	2151	2664
70°	1444	2253	2914
75°	1265	2372	3013
80°	1089	2259	2365
85°	954	1643	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.0
10°-20°	198.9	8.5
20°-30°	303.4	13.0
30°-40°	370.5	15.9
40°-50°	396.1	17.0
50°-60°	382.3	16.4
60°-70°	329.1	14.1
70°-80°	222.7	9.6
80°-90°	58.8	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°	571.5	24.5
0°-40°	942.0	40.4
0°-60°	1720.4	73.8
0°-90°	2331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	725	727	730	730	730	69
15°	698	700	705	708	710	197
25°	648	652	662	665	669	298
35°	574	580	592	604	609	359
45°	482	490	509	535	549	372
55°	372	384	425	468	490	333
65°	247	271	338	391	418	246
75°	122	161	228	274	290	131
85°	31	43	53	55	58	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.2	732.2	732.2	732.2	732.2
2.5°	727.1	728.8	732.2	732.2	733.9
5°	725.3	727.1	730.5	730.5	730.5
7.5°	720.2	721.9	725.3	727.1	727.1
10°	715.1	716.8	720.2	721.9	723.6
12.5°	706.5	708.2	713.3	716.8	716.8
15°	697.9	699.6	704.8	708.2	709.9
17.5°	687.6	691.1	696.2	699.6	701.3
20°	673.9	677.3	684.2	689.3	691.1
22.5°	661.9	665.3	672.2	677.3	680.8
25°	648.2	651.6	661.9	665.3	668.8
27.5°	631.0	634.5	643.0	649.9	655.0
30°	613.9	617.3	627.6	636.2	639.6
32.5°	595.0	600.2	612.2	619.0	624.2
35°	574.4	579.6	591.6	603.6	608.7
37.5°	553.9	559.0	571.0	586.5	593.3
40°	529.9	536.7	552.2	572.7	576.2
42.5°	507.6	516.1	529.9	553.9	562.4
45°	481.9	490.4	509.3	535.0	548.7
47.5°	457.8	466.4	487.0	517.9	535.0
50°	428.7	440.7	466.4	502.4	519.6
52.5°	401.3	411.5	445.8	485.3	505.9
55°	372.1	384.1	425.3	468.1	490.4
57.5°	346.4	356.7	403.0	451.0	476.7
60°	313.8	327.5	380.7	432.1	457.8
62.5°	279.5	300.1	358.4	411.5	439.0
65°	246.9	270.9	337.8	391.0	418.4
67.5°	217.8	243.5	312.1	368.7	394.4
70°	183.5	216.1	286.4	341.2	370.4
72.5°	152.6	188.6	257.2	312.1	337.8
75°	121.7	161.2	228.1	274.4	289.8
77.5°	94.3	132.0	195.5	209.2	210.9
80°	70.3	104.6	145.8	147.5	152.6
82.5°	48.0	73.7	94.3	102.9	104.6
85°	30.9	42.9	53.2	54.9	58.3
87.5°	13.7	15.4	18.9	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)