

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: P277298

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2960.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

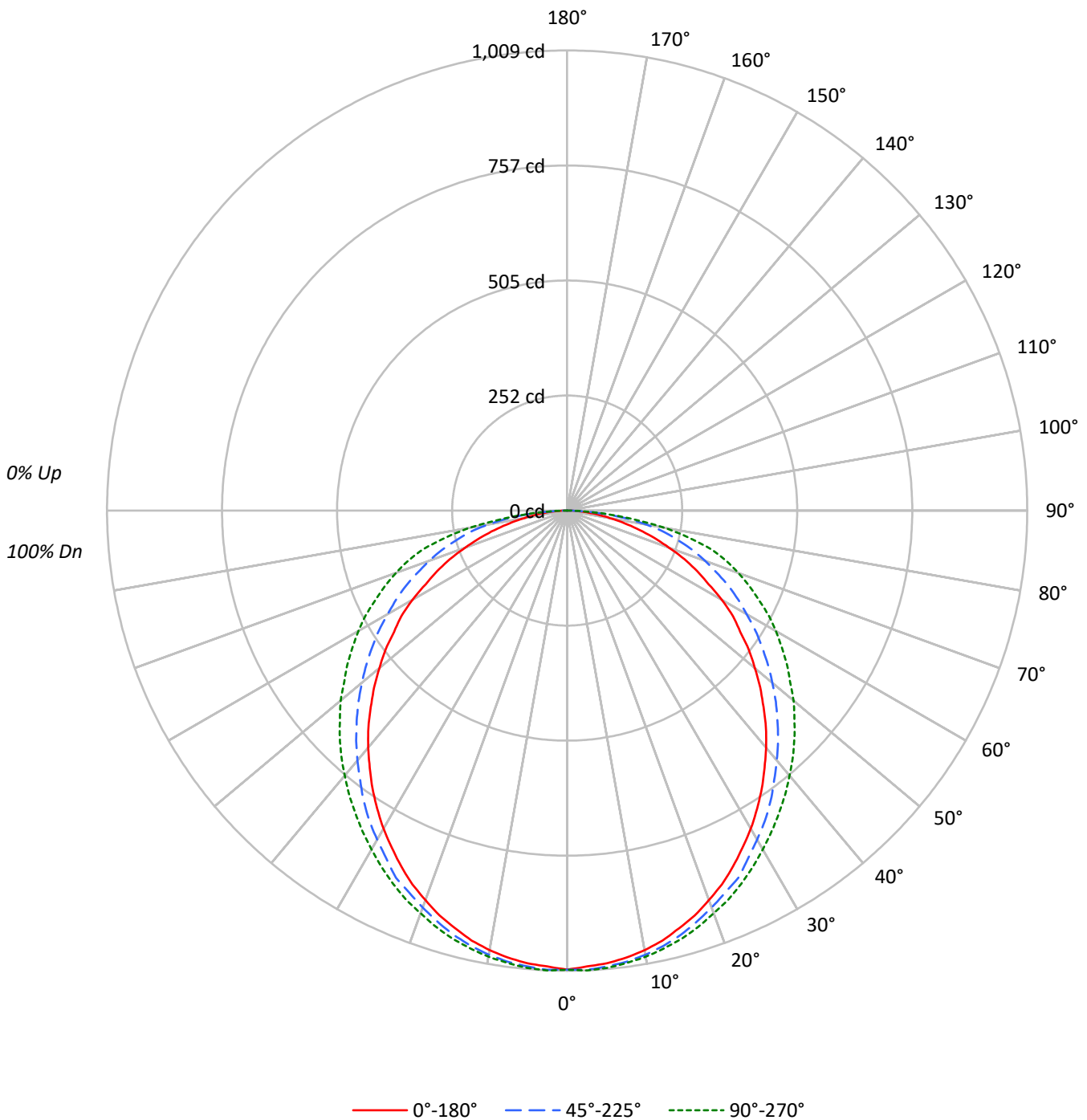
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	96	93	96	93	90	92	90	87	89	86	84	82																												
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																												
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56																												
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48																												
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41																												
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36																												
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32																												
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28																												
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																												
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2708	2708	2708
5°	2691	2711	2719
10°	2675	2702	2714
15°	2642	2682	2707
20°	2603	2653	2690
25°	2556	2638	2681
30°	2503	2589	2666
35°	2445	2555	2660
40°	2384	2512	2666
45°	2317	2483	2683
50°	2250	2457	2714
55°	2173	2446	2761
60°	2109	2446	2845
65°	2003	2485	2949
70°	1868	2533	3140
75°	1711	2620	3393
80°	1489	2731	3341
85°	1303	2430	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.2
10°-20°	271.1	9.2
20°-30°	407.0	13.7
30°-40°	486.3	16.4
40°-50°	505.7	17.1
50°-60°	468.7	15.8
60°-70°	384.4	13.0
70°-80°	259.9	8.8
80°-90°	81.7	2.8
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°	773.3	26.1
0°-40°	1259.6	42.6
0°-60°	2234.0	75.5
0°-90°	2960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	996	998	1004	1005	1006	95
15°	948	953	963	969	972	267
25°	861	868	888	899	903	396
35°	744	754	778	801	810	465
45°	609	620	652	690	705	470
55°	463	478	521	568	588	416
65°	315	332	390	441	463	311
75°	165	192	252	303	326	175
85°	42	58	79	87	86	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1000.6	1003.5	1007.9	1009.4	1009.4
5°	996.3	997.7	1003.5	1005.0	1006.5
7.5°	989.0	991.9	997.7	999.2	1000.6
10°	978.8	981.7	989.0	991.9	993.3
12.5°	965.7	968.6	977.3	981.7	983.2
15°	948.2	952.6	962.8	968.6	971.5
17.5°	930.7	935.1	945.3	954.0	956.9
20°	908.9	919.1	926.3	938.0	939.5
22.5°	887.0	892.8	906.0	917.6	923.4
25°	860.8	868.1	888.5	898.7	903.0
27.5°	833.1	843.3	859.3	875.4	881.2
30°	805.5	812.7	833.1	852.1	857.9
32.5°	774.9	785.1	806.9	825.8	834.6
35°	744.3	754.5	777.8	801.1	809.8
37.5°	710.8	722.4	745.7	773.4	785.1
40°	678.7	687.5	715.2	748.7	758.8
42.5°	645.2	655.4	684.6	721.0	732.6
45°	608.8	620.5	652.5	690.4	705.0
47.5°	573.9	585.5	620.5	658.3	675.8
50°	537.5	552.0	587.0	630.7	648.2
52.5°	502.5	515.6	554.9	600.1	616.1
55°	463.2	477.7	521.4	568.0	588.4
57.5°	431.1	441.3	489.4	537.5	557.8
60°	391.8	404.9	454.4	505.4	528.7
62.5°	349.6	371.4	422.4	474.8	498.1
65°	314.6	332.1	390.3	441.3	463.2
67.5°	278.2	297.1	353.9	407.8	432.6
70°	237.4	262.2	321.9	375.8	399.1
72.5°	201.0	227.2	288.4	340.8	365.6
75°	164.6	192.3	252.0	303.0	326.3
77.5°	129.6	160.2	218.5	257.8	272.4
80°	96.1	125.3	176.2	203.9	215.6
82.5°	67.0	91.8	129.6	144.2	147.1
85°	42.2	58.3	78.7	87.4	85.9
87.5°	18.9	23.3	29.1	32.0	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)