

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: P277463

Luminaire Tested: **22CZ2-34HE-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

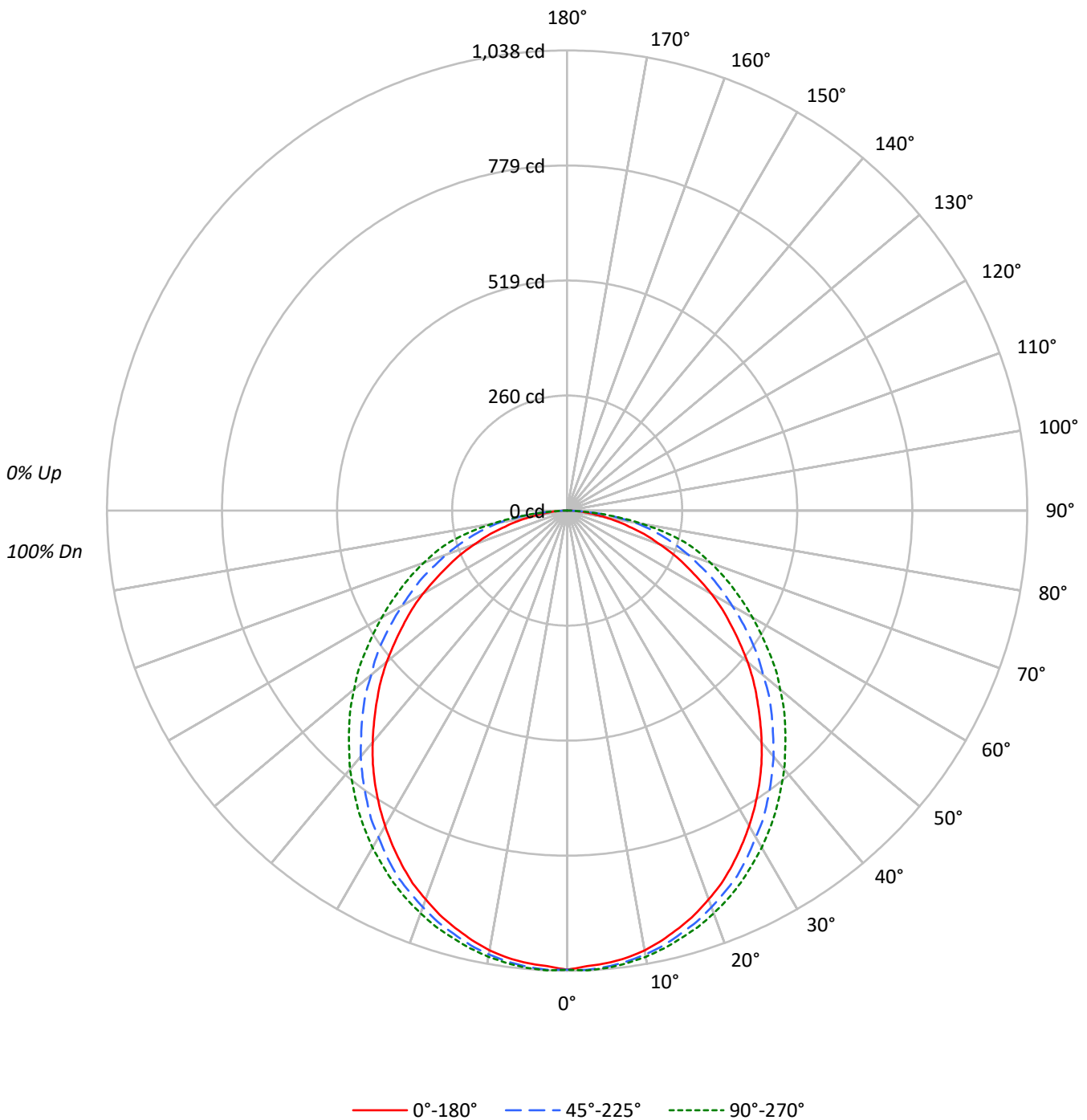
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2787	2787	2787
5°	2768	2790	2797
10°	2752	2778	2793
15°	2716	2754	2780
20°	2672	2726	2769
25°	2619	2698	2751
30°	2552	2644	2728
35°	2481	2596	2702
40°	2397	2544	2676
45°	2309	2484	2648
50°	2224	2416	2625
55°	2119	2373	2606
60°	2025	2315	2598
65°	1889	2301	2627
70°	1740	2281	2705
75°	1570	2313	2846
80°	1358	2382	2675
85°	1124	1998	1998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.4
10°-20°	278.7	9.6
20°-30°	417.0	14.4
30°-40°	493.8	17.1
40°-50°	503.3	17.4
50°-60°	451.1	15.6
60°-70°	353.2	12.2
70°-80°	227.7	7.9
80°-90°	67.3	2.3
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°	793.6	27.5
0°-40°	1287.5	44.5
0°-60°	2241.8	77.6
0°-90°	2890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1025	1028	1033	1034	1036	97
15°	975	980	988	996	998	275
25°	882	890	909	921	926	406
35°	755	764	790	814	822	472
45°	607	620	653	686	696	469
55°	452	466	506	541	556	405
65°	297	314	361	396	413	295
75°	151	174	222	260	274	162
85°	36	50	65	65	65	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.6	1035.6	1035.6	1035.6	1035.6
2.5°	1028.8	1031.5	1036.9	1038.3	1038.3
5°	1024.8	1027.5	1032.9	1034.2	1035.6
7.5°	1018.0	1019.4	1026.1	1028.8	1030.2
10°	1007.3	1010.0	1016.7	1020.7	1022.1
12.5°	992.4	996.5	1004.6	1010.0	1011.3
15°	974.9	980.3	988.4	996.5	997.8
17.5°	956.0	961.4	972.2	981.6	984.3
20°	933.1	939.8	952.0	962.8	966.8
22.5°	910.2	915.6	930.4	943.9	947.9
25°	881.9	889.9	908.8	921.0	926.4
27.5°	852.2	861.6	880.5	896.7	902.1
30°	821.2	830.6	850.8	871.1	877.8
32.5°	788.8	799.6	823.9	844.1	850.8
35°	755.1	764.5	790.2	814.4	822.5
37.5°	720.0	728.1	757.8	783.4	791.5
40°	682.3	693.1	724.1	753.8	761.9
42.5°	644.5	656.7	687.7	720.0	728.1
45°	606.8	620.3	652.6	686.3	695.8
47.5°	570.4	581.2	617.6	649.9	663.4
50°	531.3	542.1	577.1	613.5	627.0
52.5°	490.8	505.7	543.4	578.5	594.6
55°	451.7	466.5	505.7	540.7	555.5
57.5°	415.3	427.4	467.9	504.3	519.1
60°	376.2	387.0	430.1	469.2	482.7
62.5°	334.4	350.6	395.1	431.5	447.7
65°	296.6	314.2	361.4	396.4	412.6
67.5°	261.6	277.8	323.6	361.4	378.9
70°	221.1	242.7	289.9	327.7	343.8
72.5°	188.8	207.7	256.2	294.0	311.5
75°	151.0	173.9	222.5	260.2	273.7
77.5°	120.0	142.9	188.8	218.4	225.2
80°	87.6	110.6	153.7	168.6	172.6
82.5°	59.3	80.9	110.6	114.6	116.0
85°	36.4	49.9	64.7	64.7	64.7
87.5°	17.5	20.2	22.9	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)