

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: P277198

Luminaire Tested: **22CZ2-34HE-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277198
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-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2722.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

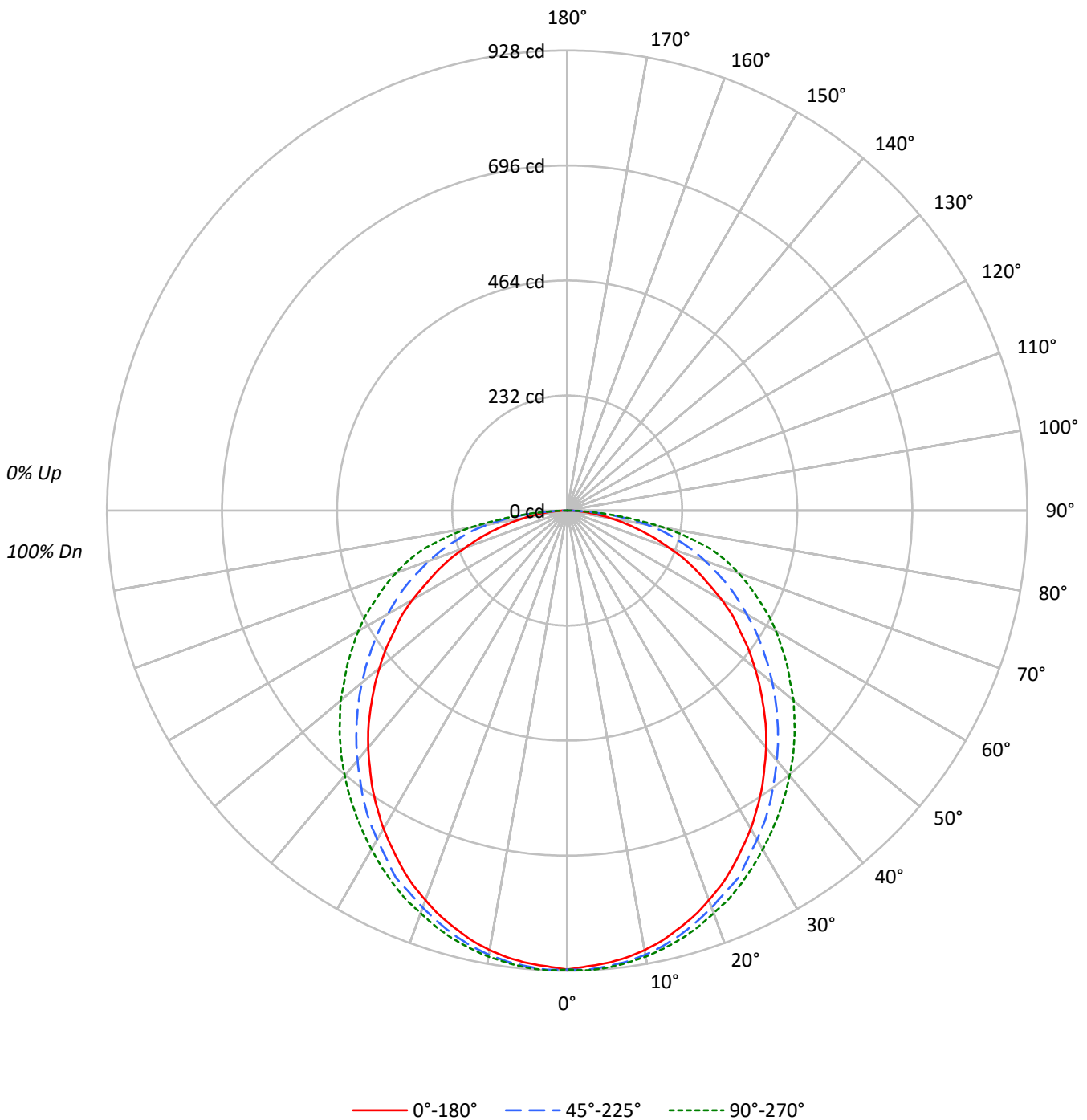
Input Watts (W): 26.155692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2491	2491	2491
5°	2475	2493	2500
10°	2460	2485	2496
15°	2429	2466	2489
20°	2393	2440	2474
25°	2350	2426	2466
30°	2302	2380	2451
35°	2248	2349	2446
40°	2193	2310	2451
45°	2131	2284	2467
50°	2069	2260	2495
55°	1998	2250	2539
60°	1939	2249	2617
65°	1842	2286	2712
70°	1718	2329	2888
75°	1574	2409	3119
80°	1370	2512	3071
85°	1198	2232	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.2
10°-20°	249.3	9.2
20°-30°	374.3	13.7
30°-40°	447.2	16.4
40°-50°	465.0	17.1
50°-60°	431.0	15.8
60°-70°	353.5	13.0
70°-80°	239.0	8.8
80°-90°	75.1	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°	711.1	26.1
0°-40°	1158.3	42.6
0°-60°	2054.4	75.5
0°-90°	2722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	916	918	923	924	926	87
15°	872	876	885	891	893	246
25°	792	798	817	826	830	365
35°	684	694	715	737	745	428
45°	560	571	600	635	648	432
55°	426	439	480	522	541	383
65°	289	305	359	406	426	286
75°	151	177	232	279	300	160
85°	39	54	72	80	79	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.5	925.5	925.5	925.5	925.5
2.5°	920.2	922.9	926.9	928.2	928.2
5°	916.2	917.5	922.9	924.2	925.5
7.5°	909.5	912.1	917.5	918.8	920.2
10°	900.1	902.8	909.5	912.1	913.5
12.5°	888.0	890.7	898.7	902.8	904.1
15°	872.0	876.0	885.3	890.7	893.4
17.5°	855.9	859.9	869.3	877.3	880.0
20°	835.8	845.2	851.9	862.6	863.9
22.5°	815.7	821.1	833.1	843.8	849.2
25°	791.6	798.3	817.0	826.4	830.4
27.5°	766.1	775.5	790.3	805.0	810.3
30°	740.7	747.4	766.1	783.6	788.9
32.5°	712.6	721.9	742.0	759.4	767.5
35°	684.4	693.8	715.2	736.7	744.7
37.5°	653.6	664.3	685.8	711.2	721.9
40°	624.2	632.2	657.6	688.5	697.8
42.5°	593.4	602.7	629.5	663.0	673.7
45°	559.9	570.6	600.1	634.9	648.3
47.5°	527.7	538.4	570.6	605.4	621.5
50°	494.2	507.6	539.8	580.0	596.0
52.5°	462.1	474.2	510.3	551.8	566.6
55°	425.9	439.3	479.5	522.4	541.1
57.5°	396.5	405.8	450.0	494.2	513.0
60°	360.3	372.4	417.9	464.8	486.2
62.5°	321.5	341.5	388.4	436.6	458.1
65°	289.3	305.4	359.0	405.8	425.9
67.5°	255.8	273.2	325.5	375.0	397.8
70°	218.3	241.1	296.0	345.6	367.0
72.5°	184.8	208.9	265.2	313.4	336.2
75°	151.4	176.8	231.7	278.6	300.0
77.5°	119.2	147.3	200.9	237.1	250.5
80°	88.4	115.2	162.1	187.5	198.2
82.5°	61.6	84.4	119.2	132.6	135.3
85°	38.8	53.6	72.3	80.4	79.0
87.5°	17.4	21.4	26.8	29.5	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)