

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: P277297

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277297
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2900.9 lumens
Efficiency: N/A
Efficacy: 111.0 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

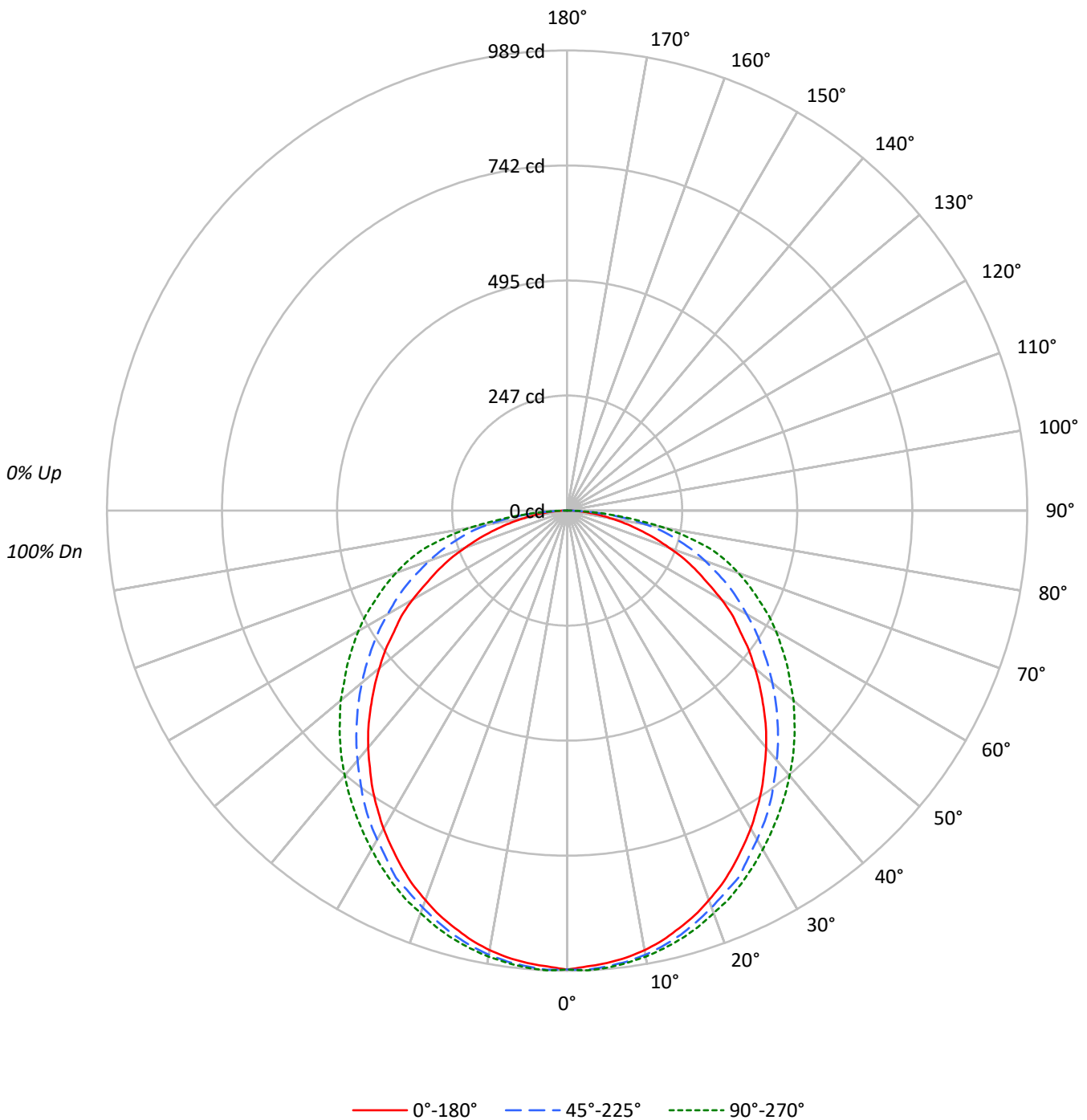
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2654	2654	2654
5°	2638	2657	2665
10°	2621	2649	2660
15°	2589	2629	2652
20°	2551	2600	2637
25°	2505	2586	2628
30°	2453	2537	2613
35°	2396	2504	2607
40°	2337	2462	2612
45°	2271	2434	2629
50°	2205	2408	2659
55°	2130	2397	2706
60°	2067	2397	2789
65°	1963	2436	2890
70°	1831	2482	3077
75°	1677	2568	3325
80°	1460	2676	3274
85°	1278	2381	2600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.2
10°-20°	265.7	9.2
20°-30°	398.9	13.7
30°-40°	476.6	16.4
40°-50°	495.6	17.1
50°-60°	459.3	15.8
60°-70°	376.8	13.0
70°-80°	254.7	8.8
80°-90°	80.0	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°	757.9	26.1
0°-40°	1234.5	42.6
0°-60°	2189.4	75.5
0°-90°	2900.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	976	978	984	985	986	93
15°	929	934	944	949	952	262
25°	844	851	871	881	885	389
35°	729	739	762	785	794	456
45°	597	608	640	677	691	461
55°	454	468	511	557	577	408
65°	308	326	383	432	454	305
75°	161	188	247	297	320	171
85°	41	57	77	86	84	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.4	986.4	986.4	986.4	986.4
2.5°	980.7	983.5	987.8	989.2	989.2
5°	976.4	977.8	983.5	985.0	986.4
7.5°	969.3	972.1	977.8	979.3	980.7
10°	959.3	962.1	969.3	972.1	973.5
12.5°	946.4	949.3	957.8	962.1	963.6
15°	929.3	933.6	943.6	949.3	952.1
17.5°	912.2	916.4	926.4	935.0	937.9
20°	890.8	900.7	907.9	919.3	920.7
22.5°	869.3	875.0	887.9	899.3	905.0
25°	843.6	850.8	870.8	880.8	885.0
27.5°	816.5	826.5	842.2	857.9	863.6
30°	789.4	796.5	816.5	835.1	840.8
32.5°	759.4	769.4	790.8	809.4	817.9
35°	729.4	739.4	762.3	785.1	793.7
37.5°	696.6	708.0	730.9	758.0	769.4
40°	665.2	673.8	700.9	733.7	743.7
42.5°	632.4	642.4	670.9	706.6	718.0
45°	596.7	608.1	639.5	676.6	690.9
47.5°	562.4	573.8	608.1	645.2	662.4
50°	526.7	541.0	575.3	618.1	635.2
52.5°	492.5	505.3	543.9	588.1	603.8
55°	453.9	468.2	511.0	556.7	576.7
57.5°	422.5	432.5	479.6	526.7	546.7
60°	384.0	396.8	445.4	495.3	518.2
62.5°	342.6	364.0	414.0	465.4	488.2
65°	308.3	325.5	382.6	432.5	453.9
67.5°	272.6	291.2	346.9	399.7	424.0
70°	232.7	256.9	315.5	368.3	391.1
72.5°	197.0	222.7	282.6	334.0	358.3
75°	161.3	188.4	247.0	296.9	319.8
77.5°	127.0	157.0	214.1	252.7	266.9
80°	94.2	122.8	172.7	199.8	211.3
82.5°	65.7	89.9	127.0	141.3	144.2
85°	41.4	57.1	77.1	85.6	84.2
87.5°	18.6	22.8	28.5	31.4	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)