

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: P277515

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277515
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: 22CZ2-44HE-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2894.0 lumens
Efficiency: N/A
Efficacy: 81.7 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

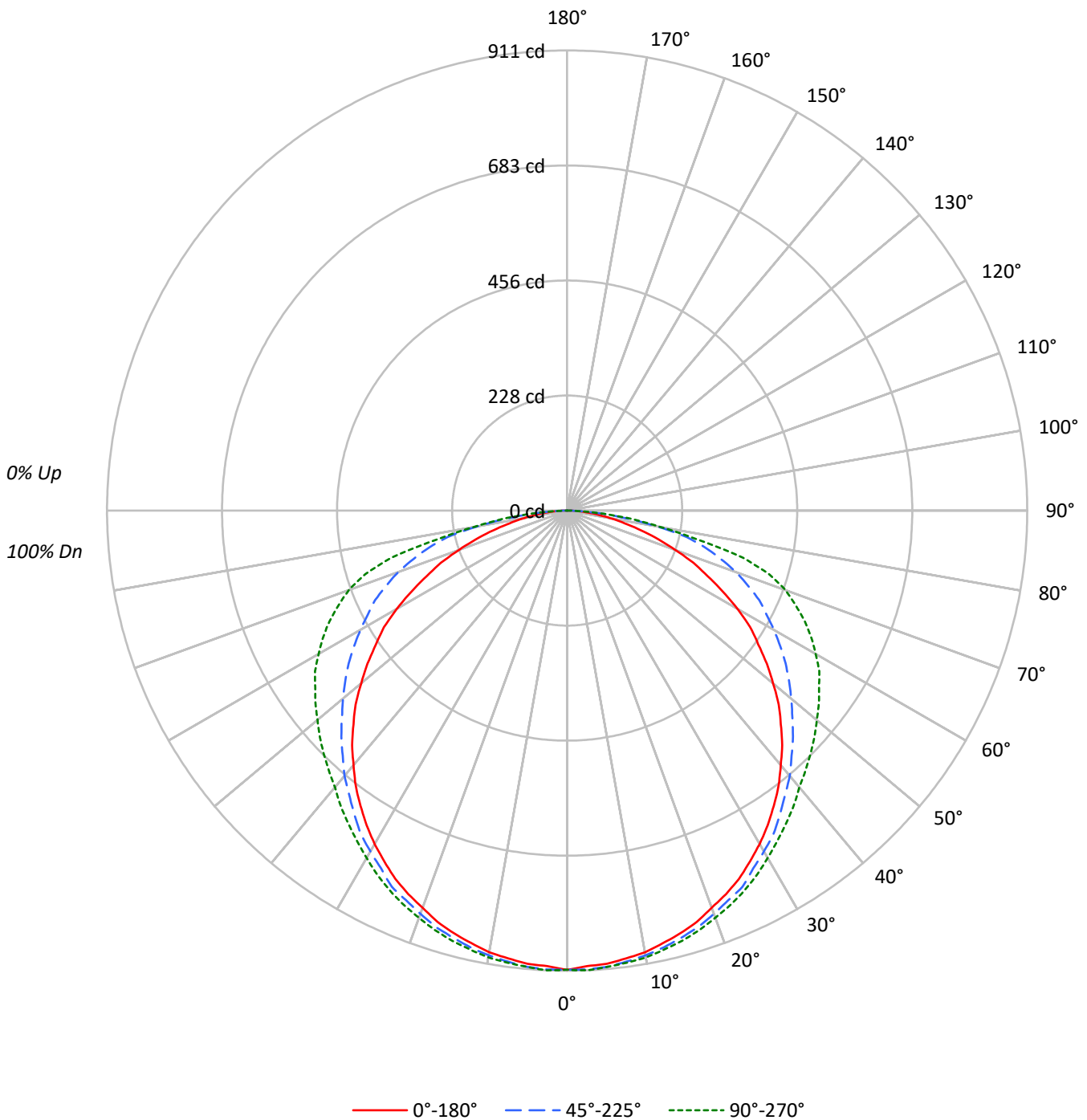
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2446	2446	2446
5°	2432	2450	2450
10°	2426	2443	2455
15°	2414	2438	2455
20°	2396	2432	2457
25°	2389	2440	2465
30°	2368	2421	2467
35°	2343	2413	2483
40°	2311	2408	2513
45°	2277	2406	2593
50°	2228	2424	2701
55°	2168	2477	2857
60°	2097	2544	3059
65°	1952	2670	3308
70°	1792	2797	3618
75°	1572	2943	3741
80°	1353	2805	2937
85°	1183	2038	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.0
10°-20°	246.9	8.5
20°-30°	376.7	13.0
30°-40°	459.9	15.9
40°-50°	491.8	17.0
50°-60°	474.7	16.4
60°-70°	408.6	14.1
70°-80°	276.5	9.6
80°-90°	72.9	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°	709.6	24.5
0°-40°	1169.5	40.4
0°-60°	2136.0	73.8
0°-90°	2894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	900	903	907	907	907	86
15°	866	869	875	879	881	244
25°	805	809	822	826	830	370
35°	713	720	734	749	756	446
45°	598	609	632	664	681	462
55°	462	477	528	581	609	414
65°	307	336	419	485	520	305
75°	151	200	283	341	360	162
85°	38	53	66	68	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	902.7	904.8	909.1	909.1	911.2
5°	900.5	902.7	906.9	906.9	906.9
7.5°	894.2	896.3	900.5	902.7	902.7
10°	887.8	889.9	894.2	896.3	898.4
12.5°	877.1	879.3	885.6	889.9	889.9
15°	866.5	868.6	875.0	879.3	881.4
17.5°	853.7	858.0	864.3	868.6	870.7
20°	836.7	840.9	849.4	855.8	858.0
22.5°	821.8	826.0	834.5	840.9	845.2
25°	804.7	809.0	821.8	826.0	830.3
27.5°	783.4	787.7	798.4	806.9	813.3
30°	762.2	766.4	779.2	789.8	794.1
32.5°	738.7	745.1	760.0	768.5	774.9
35°	713.2	719.6	734.5	749.4	755.8
37.5°	687.6	694.0	708.9	728.1	736.6
40°	657.8	666.4	685.5	711.1	715.3
42.5°	630.2	640.8	657.8	687.6	698.3
45°	598.2	608.9	632.3	664.2	681.3
47.5°	568.4	579.1	604.6	642.9	664.2
50°	532.2	547.1	579.1	623.8	645.1
52.5°	498.2	510.9	553.5	602.5	628.0
55°	462.0	476.9	528.0	581.2	608.9
57.5°	430.0	442.8	500.3	559.9	591.8
60°	389.6	406.6	472.6	536.5	568.4
62.5°	347.0	372.6	444.9	510.9	545.0
65°	306.6	336.4	419.4	485.4	519.5
67.5°	270.4	302.3	387.5	457.7	489.7
70°	227.8	268.2	355.5	423.7	459.9
72.5°	189.5	234.2	319.3	387.5	419.4
75°	151.2	200.1	283.1	340.6	359.8
77.5°	117.1	163.9	242.7	259.7	261.9
80°	87.3	129.9	181.0	183.1	189.5
82.5°	59.6	91.5	117.1	127.7	129.9
85°	38.3	53.2	66.0	68.1	72.4
87.5°	17.0	19.2	23.4	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)