

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: P277516

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277516
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2921.0 lumens
Efficiency: N/A
Efficacy: 80.5 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

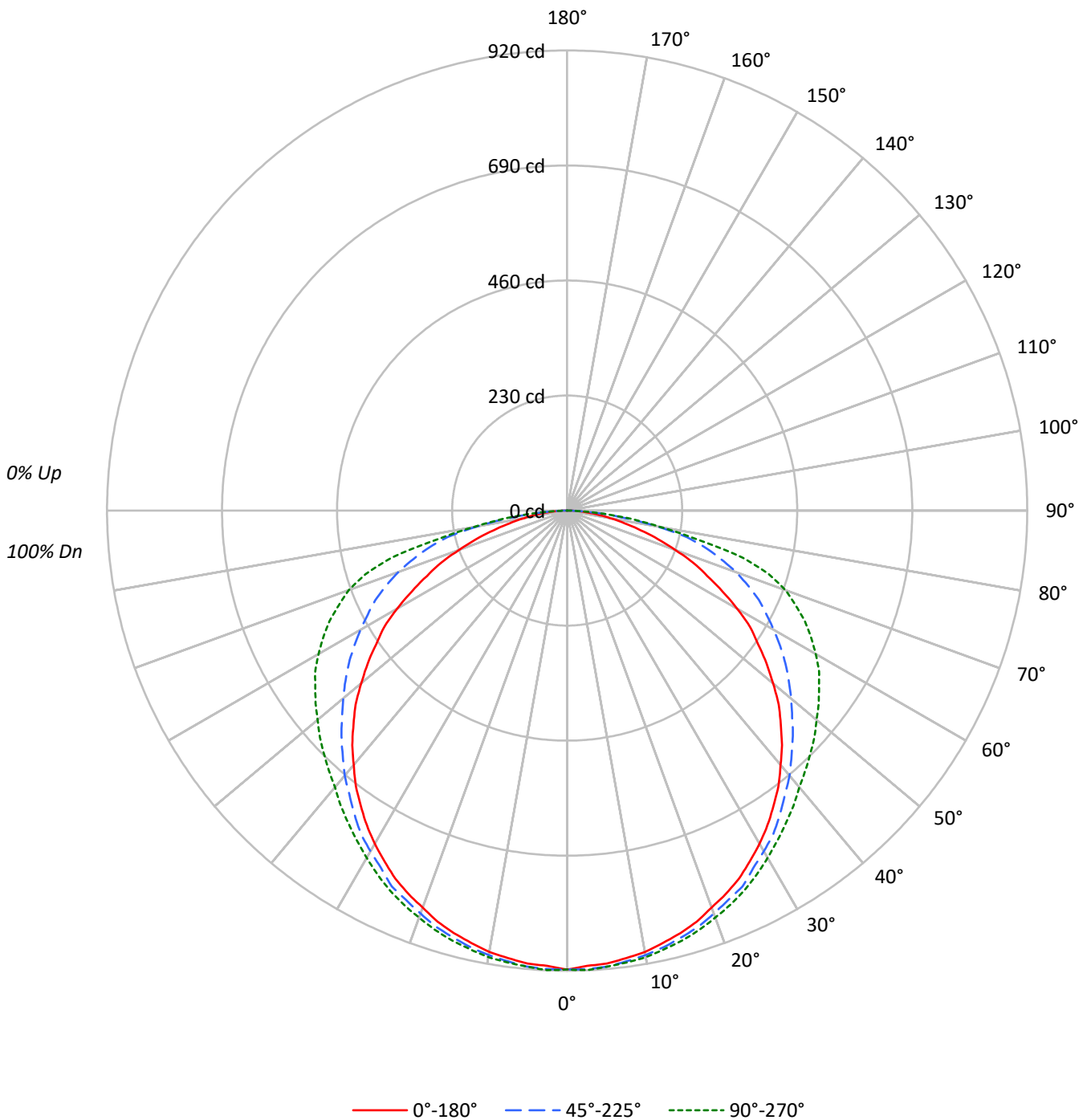
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2469	2469	2469
5°	2455	2473	2473
10°	2448	2466	2478
15°	2437	2461	2478
20°	2418	2455	2480
25°	2412	2463	2488
30°	2390	2444	2490
35°	2365	2435	2506
40°	2333	2431	2536
45°	2298	2429	2617
50°	2249	2447	2726
55°	2188	2500	2883
60°	2116	2567	3088
65°	1970	2695	3338
70°	1809	2823	3651
75°	1587	2972	3775
80°	1365	2830	2963
85°	1195	2056	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.0
10°-20°	249.2	8.5
20°-30°	380.2	13.0
30°-40°	464.2	15.9
40°-50°	496.4	17.0
50°-60°	479.1	16.4
60°-70°	412.4	14.1
70°-80°	279.0	9.6
80°-90°	73.6	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°	716.2	24.5
0°-40°	1180.4	40.4
0°-60°	2155.9	73.8
0°-90°	2921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	909	911	915	915	915	86
15°	875	877	883	888	890	247
25°	812	816	829	834	838	374
35°	720	726	741	756	763	450
45°	604	615	638	670	688	466
55°	466	481	533	587	615	418
65°	309	340	423	490	524	308
75°	153	202	286	344	363	164
85°	39	54	67	69	73	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.5	917.5	917.5	917.5	917.5
2.5°	911.1	913.2	917.5	917.5	919.7
5°	908.9	911.1	915.4	915.4	915.4
7.5°	902.5	904.6	908.9	911.1	911.1
10°	896.0	898.2	902.5	904.6	906.8
12.5°	885.3	887.5	893.9	898.2	898.2
15°	874.6	876.7	883.2	887.5	889.6
17.5°	861.7	866.0	872.4	876.7	878.9
20°	844.5	848.8	857.4	863.8	866.0
22.5°	829.4	833.7	842.3	848.8	853.1
25°	812.2	816.5	829.4	833.7	838.0
27.5°	790.8	795.1	805.8	814.4	820.8
30°	769.3	773.6	786.5	797.2	801.5
32.5°	745.6	752.1	767.1	775.7	782.2
35°	719.8	726.3	741.3	756.4	762.8
37.5°	694.1	700.5	715.5	734.9	743.5
40°	664.0	672.6	691.9	717.7	722.0
42.5°	636.0	646.8	664.0	694.1	704.8
45°	603.8	614.6	638.2	670.4	687.6
47.5°	573.7	584.5	610.3	648.9	670.4
50°	537.2	552.2	584.5	629.6	651.1
52.5°	502.8	515.7	558.7	608.1	633.9
55°	466.3	481.3	532.9	586.6	614.6
57.5°	434.1	447.0	505.0	565.1	597.4
60°	393.2	410.4	477.0	541.5	573.7
62.5°	350.3	376.0	449.1	515.7	550.1
65°	309.4	339.5	423.3	489.9	524.3
67.5°	272.9	305.1	391.1	462.0	494.2
70°	229.9	270.7	358.8	427.6	464.1
72.5°	191.2	236.4	322.3	391.1	423.3
75°	152.6	202.0	285.8	343.8	363.1
77.5°	118.2	165.5	245.0	262.2	264.3
80°	88.1	131.1	182.6	184.8	191.2
82.5°	60.2	92.4	118.2	128.9	131.1
85°	38.7	53.7	66.6	68.8	73.1
87.5°	17.2	19.3	23.6	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)