

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: P277202

Luminaire Tested: **22CZ2-39HE-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277202
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: 22CZ2-39HE-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2855.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

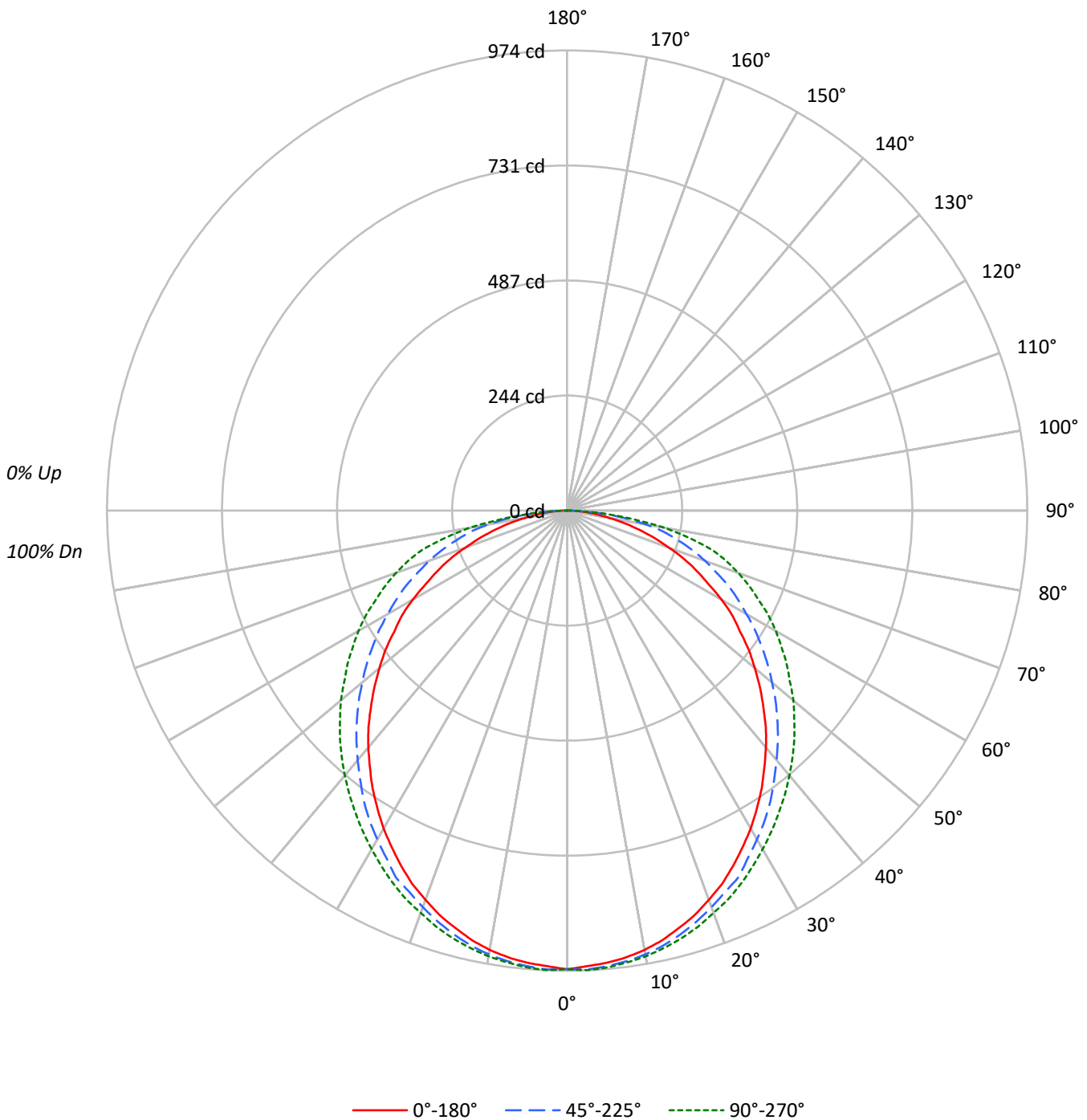
Input Watts (W): 30.825036
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2612	2612	2612
5°	2596	2615	2622
10°	2580	2607	2618
15°	2548	2587	2610
20°	2510	2559	2595
25°	2465	2545	2586
30°	2414	2497	2571
35°	2358	2464	2566
40°	2300	2423	2571
45°	2235	2395	2587
50°	2170	2370	2617
55°	2096	2359	2663
60°	2034	2359	2745
65°	1932	2397	2844
70°	1802	2443	3028
75°	1650	2527	3272
80°	1437	2634	3222
85°	1257	2343	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.2
10°-20°	261.5	9.2
20°-30°	392.6	13.7
30°-40°	469.1	16.4
40°-50°	487.8	17.1
50°-60°	452.1	15.8
60°-70°	370.8	13.0
70°-80°	250.7	8.8
80°-90°	78.8	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°	745.9	26.1
0°-40°	1214.9	42.6
0°-60°	2154.8	75.5
0°-90°	2855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	961	962	968	969	971	91
15°	915	919	929	934	937	258
25°	830	837	857	867	871	382
35°	718	728	750	773	781	449
45°	587	598	629	666	680	453
55°	447	461	503	548	568	401
65°	303	320	376	426	447	300
75°	159	185	243	292	315	168
85°	41	56	76	84	83	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.8	970.8	970.8	970.8	970.8
2.5°	965.1	967.9	972.2	973.6	973.6
5°	960.9	962.3	967.9	969.3	970.8
7.5°	953.9	956.7	962.3	963.7	965.1
10°	944.1	946.9	953.9	956.7	958.1
12.5°	931.4	934.2	942.7	946.9	948.3
15°	914.6	918.8	928.6	934.2	937.0
17.5°	897.7	901.9	911.7	920.2	923.0
20°	876.6	886.5	893.5	904.7	906.1
22.5°	855.6	861.2	873.8	885.1	890.7
25°	830.3	837.3	857.0	866.8	871.0
27.5°	803.6	813.4	828.9	844.3	849.9
30°	776.9	783.9	803.6	821.8	827.5
32.5°	747.4	757.2	778.3	796.6	805.0
35°	717.9	727.7	750.2	772.7	781.1
37.5°	685.6	696.8	719.3	746.0	757.2
40°	654.7	663.1	689.8	722.1	731.9
42.5°	622.3	632.2	660.3	695.4	706.6
45°	587.2	598.5	629.4	665.9	679.9
47.5°	553.5	564.8	598.5	635.0	651.9
50°	518.4	532.4	566.2	608.3	625.2
52.5°	484.7	497.3	535.2	578.8	594.3
55°	446.7	460.8	502.9	547.9	567.6
57.5°	415.8	425.7	472.0	518.4	538.1
60°	377.9	390.5	438.3	487.5	510.0
62.5°	337.2	358.2	407.4	458.0	480.5
65°	303.4	320.3	376.5	425.7	446.7
67.5°	268.3	286.6	341.4	393.4	417.2
70°	229.0	252.9	310.5	362.5	384.9
72.5°	193.9	219.2	278.2	328.7	352.6
75°	158.7	185.4	243.0	292.2	314.7
77.5°	125.0	154.5	210.7	248.7	262.7
80°	92.7	120.8	170.0	196.7	207.9
82.5°	64.6	88.5	125.0	139.1	141.9
85°	40.7	56.2	75.9	84.3	82.9
87.5°	18.3	22.5	28.1	30.9	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)