

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: P260403

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2684.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

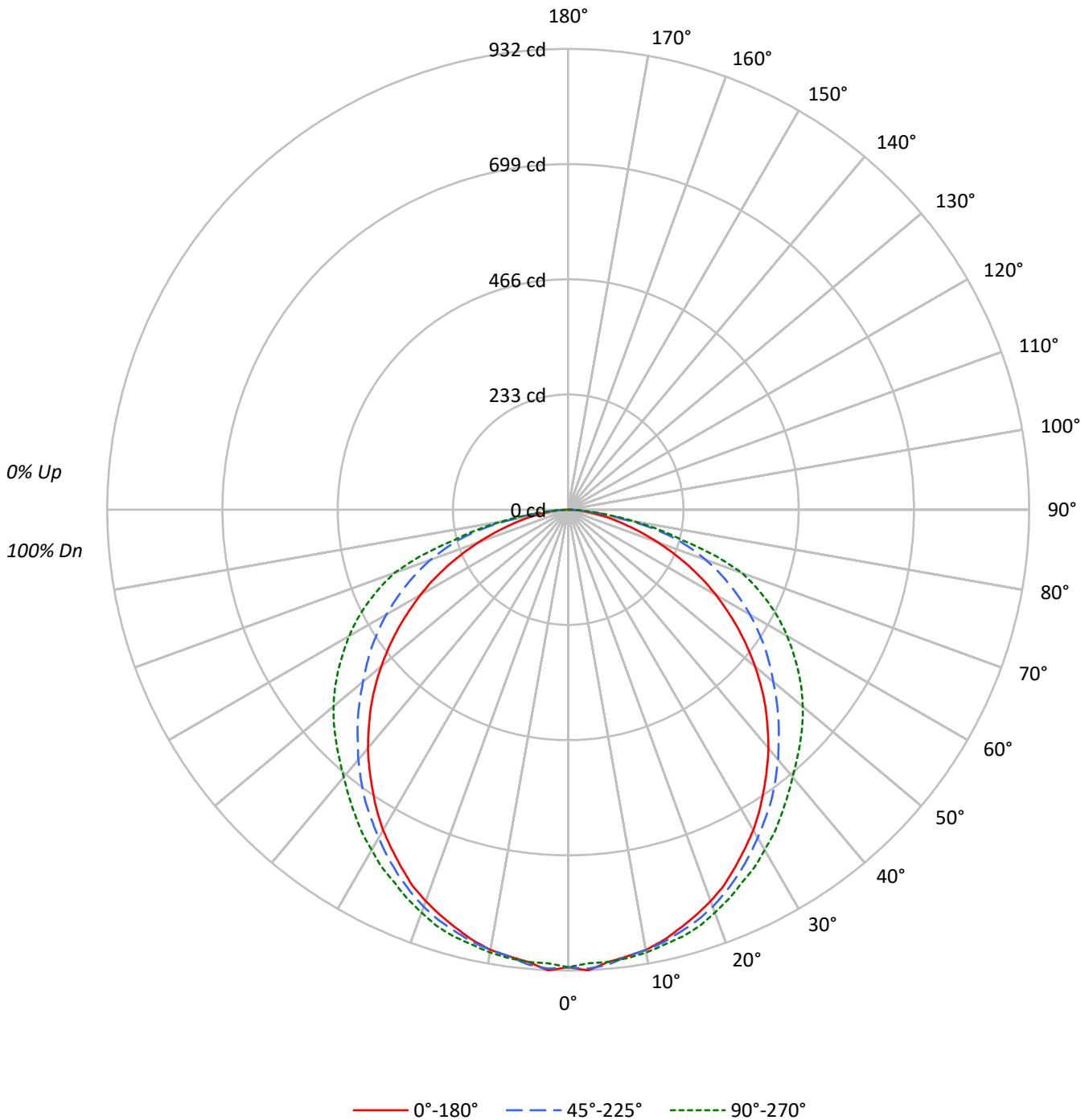
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2490	2490	2490
5°	2481	2495	2481
10°	2470	2470	2485
15°	2440	2460	2489
20°	2412	2447	2483
25°	2369	2417	2469
30°	2325	2380	2468
35°	2267	2354	2470
40°	2213	2318	2480
45°	2148	2289	2525
50°	2066	2267	2593
55°	1967	2274	2664
60°	1857	2285	2752
65°	1712	2298	2850
70°	1518	2325	2937
75°	1288	2318	2502
80°	1069	1864	2084
85°	929	1257	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.3
10°-20°	249.4	9.3
20°-30°	375.2	14.0
30°-40°	449.6	16.8
40°-50°	468.9	17.5
50°-60°	436.5	16.3
60°-70°	354.4	13.2
70°-80°	213.6	8.0
80°-90°	49.0	1.8
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°	712.0	26.5
0°-40°	1161.6	43.3
0°-60°	2067.0	77.0
0°-90°	2684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	918	918	924	925	918	87
15°	876	879	883	888	894	247
25°	798	803	814	824	832	368
35°	690	699	717	738	752	432
45°	564	575	602	640	664	434
55°	419	437	485	538	568	375
65°	269	297	361	418	448	266
75°	124	164	223	237	241	134
85°	30	37	41	39	39	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	932.4	930.7	928.9	923.6	918.3
5°	918.3	918.3	923.6	925.3	918.3
7.5°	911.2	911.2	911.2	918.3	914.7
10°	904.1	904.1	904.1	909.4	909.4
12.5°	891.7	893.5	895.3	897.0	900.6
15°	875.8	879.3	882.9	888.2	893.5
17.5°	859.9	863.4	870.5	875.8	882.9
20°	842.2	845.7	854.6	859.9	867.0
22.5°	822.7	824.5	835.1	842.2	851.0
25°	798.0	803.3	813.9	824.5	831.6
27.5°	773.2	778.5	790.9	805.0	815.6
30°	748.4	753.7	766.1	783.8	794.4
32.5°	720.1	727.2	741.3	762.6	775.0
35°	690.0	698.9	716.6	737.8	752.0
37.5°	659.9	668.8	688.3	714.8	729.0
40°	629.9	638.7	659.9	688.3	705.9
42.5°	596.3	606.9	629.9	663.5	684.7
45°	564.4	575.0	601.6	640.5	663.5
47.5°	529.0	541.4	571.5	615.7	642.3
50°	493.6	507.8	541.4	590.9	619.3
52.5°	456.5	472.4	513.1	564.4	594.5
55°	419.3	437.0	484.8	537.9	567.9
57.5°	382.2	401.6	454.7	509.6	539.6
60°	345.0	366.2	424.6	481.2	511.3
62.5°	307.9	330.9	392.8	449.4	481.2
65°	268.9	297.2	360.9	417.6	447.6
67.5°	230.0	263.6	329.1	383.9	412.2
70°	192.9	230.0	295.5	346.8	373.3
72.5°	157.5	196.4	260.1	304.3	314.9
75°	123.9	164.5	222.9	237.1	240.6
77.5°	95.5	132.7	176.9	180.5	189.3
80°	69.0	100.8	120.3	130.9	134.5
82.5°	47.8	69.0	79.6	81.4	83.2
85°	30.1	37.2	40.7	38.9	38.9
87.5°	15.9	14.2	12.4	8.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)