

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: P260539

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260539
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-LD5-39-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2683.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

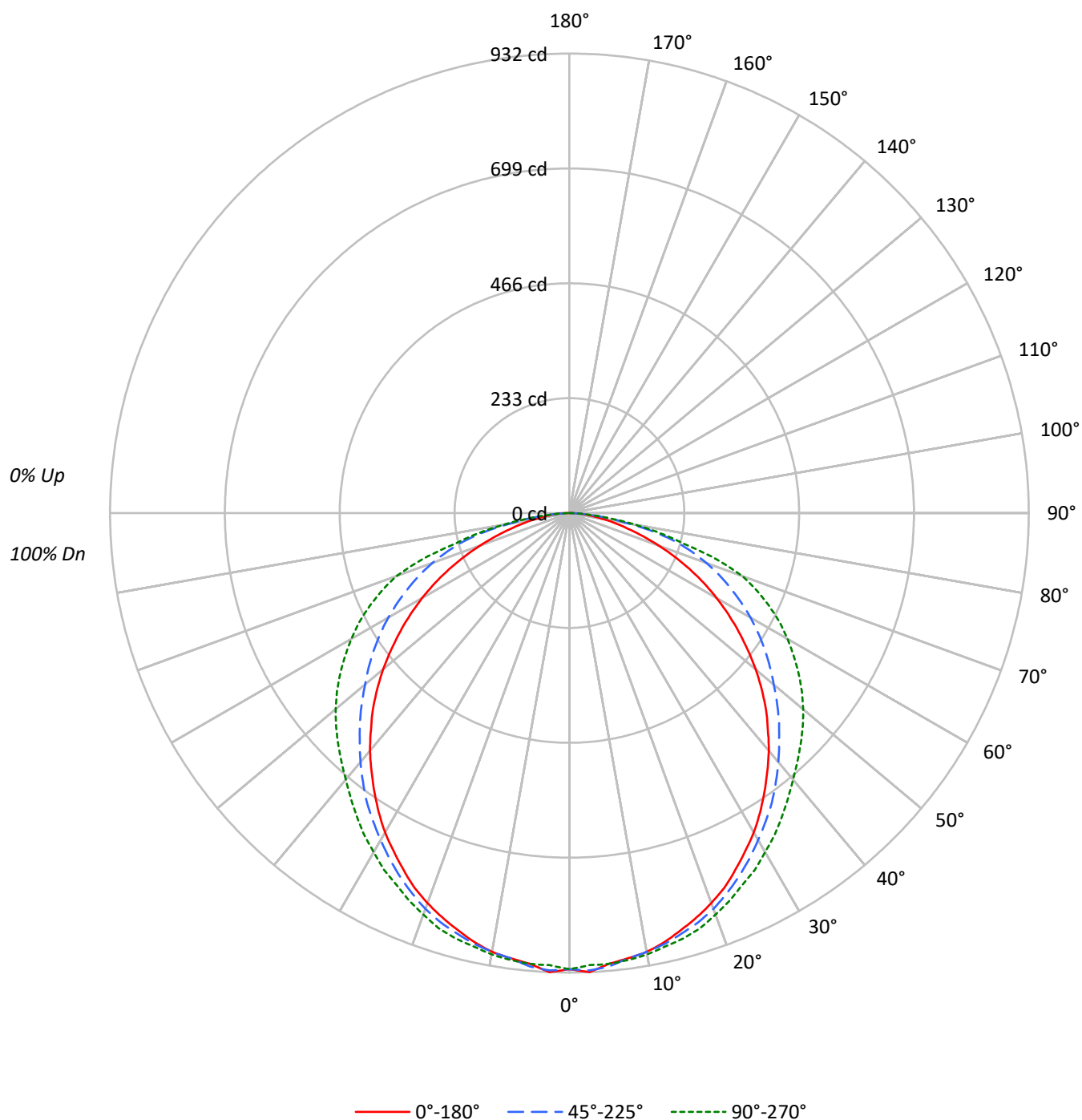
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2489	2489	2489
5°	2479	2494	2479
10°	2470	2470	2484
15°	2439	2459	2488
20°	2411	2446	2482
25°	2369	2416	2468
30°	2325	2380	2467
35°	2266	2353	2469
40°	2212	2317	2479
45°	2147	2288	2524
50°	2066	2266	2591
55°	1967	2274	2663
60°	1856	2285	2751
65°	1712	2297	2849
70°	1517	2324	2936
75°	1287	2316	2501
80°	1069	1864	2083
85°	929	1257	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.3
10°-20°	249.3	9.3
20°-30°	375.0	14.0
30°-40°	449.4	16.8
40°-50°	468.7	17.5
50°-60°	436.4	16.3
60°-70°	354.3	13.2
70°-80°	213.5	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°	711.7	26.5
0°-40°	1161.2	43.3
0°-60°	2066.2	77.0
0°-90°	2683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	918	918	923	925	918	87
15°	876	879	883	888	893	247
25°	798	803	814	824	831	368
35°	690	699	716	738	752	432
45°	564	575	601	640	663	434
55°	419	437	485	538	568	375
65°	269	297	361	417	448	266
75°	124	164	223	237	240	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°	925.0	925.0	925.0	925.0	925.0
2.5°	932.1	930.3	928.5	923.2	917.9
5°	917.9	917.9	923.2	925.0	917.9
7.5°	910.8	910.8	910.8	917.9	914.4
10°	903.8	903.8	903.8	909.1	909.1
12.5°	891.4	893.2	894.9	896.7	900.2
15°	875.5	879.0	882.6	887.9	893.2
17.5°	859.6	863.1	870.2	875.5	882.6
20°	841.9	845.4	854.3	859.6	866.6
22.5°	822.4	824.2	834.8	841.9	850.7
25°	797.7	803.0	813.6	824.2	831.3
27.5°	772.9	778.2	790.6	804.7	815.3
30°	748.1	753.4	765.8	783.5	794.1
32.5°	719.8	726.9	741.1	762.3	774.7
35°	689.8	698.6	716.3	737.5	751.7
37.5°	659.7	668.5	688.0	714.5	728.7
40°	629.6	638.5	659.7	688.0	705.7
42.5°	596.0	606.6	629.6	663.2	684.5
45°	564.2	574.8	601.3	640.2	663.2
47.5°	528.8	541.2	571.3	615.5	642.0
50°	493.4	507.6	541.2	590.7	619.0
52.5°	456.3	472.2	512.9	564.2	594.3
55°	419.2	436.9	484.6	537.7	567.7
57.5°	382.0	401.5	454.5	509.4	539.4
60°	344.9	366.1	424.5	481.1	511.1
62.5°	307.7	330.7	392.6	449.2	481.1
65°	268.8	297.1	360.8	417.4	447.5
67.5°	229.9	263.5	329.0	383.8	412.1
70°	192.8	229.9	295.4	346.7	373.2
72.5°	157.4	196.3	260.0	304.2	314.8
75°	123.8	164.5	222.8	237.0	240.5
77.5°	95.5	132.6	176.9	180.4	189.2
80°	69.0	100.8	120.3	130.9	134.4
82.5°	47.8	69.0	79.6	81.4	83.1
85°	30.1	37.1	40.7	38.9	38.9
87.5°	15.9	14.1	12.4	8.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)