

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: P260545

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260545
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-LD5-44-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

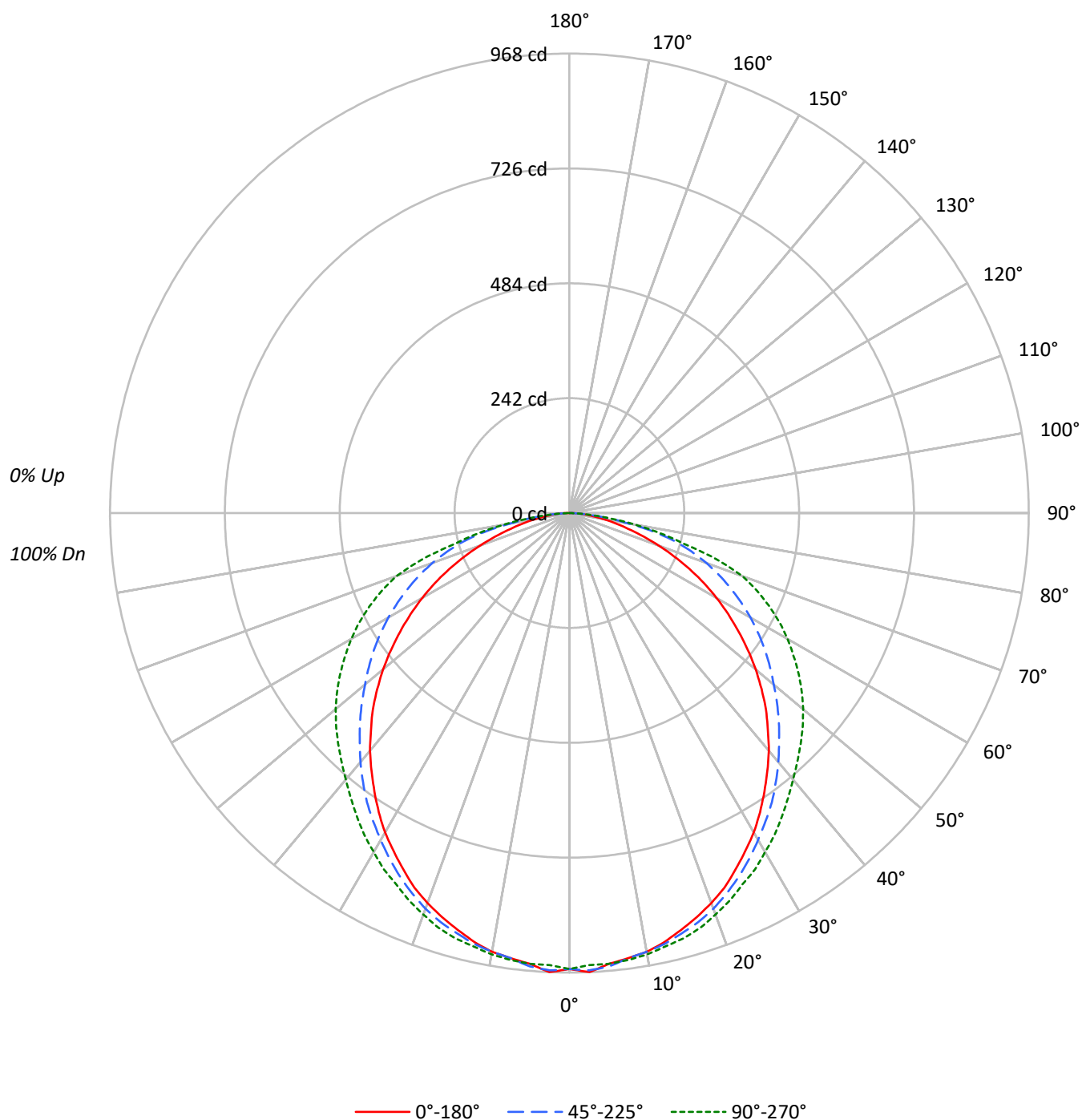
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2585	2585	2585
5°	2575	2590	2575
10°	2564	2564	2579
15°	2533	2553	2584
20°	2503	2540	2577
25°	2459	2508	2563
30°	2414	2471	2562
35°	2353	2443	2564
40°	2297	2406	2574
45°	2230	2376	2621
50°	2145	2353	2691
55°	2042	2361	2766
60°	1927	2372	2857
65°	1778	2386	2958
70°	1575	2413	3049
75°	1337	2406	2597
80°	1110	1936	2163
85°	963	1303	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.3
10°-20°	258.9	9.3
20°-30°	389.4	14.0
30°-40°	466.7	16.8
40°-50°	486.7	17.5
50°-60°	453.1	16.3
60°-70°	367.9	13.2
70°-80°	221.7	8.0
80°-90°	50.8	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°	739.0	26.5
0°-40°	1205.7	43.3
0°-60°	2145.5	77.0
0°-90°	2786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	953	953	959	960	953	91
15°	909	913	916	922	928	257
25°	828	834	845	856	863	382
35°	716	725	744	766	780	448
45°	586	597	624	665	689	451
55°	435	454	503	558	590	389
65°	279	308	375	433	465	276
75°	129	171	231	246	250	139
85°	31	39	42	40	40	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.5	960.5	960.5	960.5	960.5
2.5°	967.9	966.0	964.2	958.7	953.2
5°	953.2	953.2	958.7	960.5	953.2
7.5°	945.8	945.8	945.8	953.2	949.5
10°	938.5	938.5	938.5	944.0	944.0
12.5°	925.6	927.5	929.3	931.1	934.8
15°	909.1	912.8	916.4	921.9	927.5
17.5°	892.6	896.2	903.6	909.1	916.4
20°	874.2	877.9	887.0	892.6	899.9
22.5°	854.0	855.8	866.8	874.2	883.4
25°	828.3	833.8	844.8	855.8	863.2
27.5°	802.6	808.1	820.9	835.6	846.6
30°	776.9	782.4	795.2	813.6	824.6
32.5°	747.5	754.8	769.5	791.5	804.4
35°	716.2	725.4	743.8	765.8	780.5
37.5°	685.0	694.2	714.4	742.0	756.7
40°	653.8	663.0	685.0	714.4	732.8
42.5°	618.9	629.9	653.8	688.7	710.7
45°	585.9	596.9	624.4	664.8	688.7
47.5°	549.1	562.0	593.2	639.1	666.7
50°	512.4	527.1	562.0	613.4	642.8
52.5°	473.8	490.4	532.6	585.9	617.1
55°	435.3	453.6	503.2	558.3	589.5
57.5°	396.7	416.9	472.0	528.9	560.1
60°	358.1	380.2	440.8	499.5	530.8
62.5°	319.6	343.4	407.7	466.5	499.5
65°	279.2	308.5	374.7	433.4	464.6
67.5°	238.7	273.6	341.6	398.5	427.9
70°	200.2	238.7	306.7	360.0	387.5
72.5°	163.5	203.9	270.0	315.9	326.9
75°	128.6	170.8	231.4	246.1	249.8
77.5°	99.2	137.7	183.7	187.3	196.5
80°	71.6	104.7	124.9	135.9	139.6
82.5°	49.6	71.6	82.6	84.5	86.3
85°	31.2	38.6	42.2	40.4	40.4
87.5°	16.5	14.7	12.9	9.2	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)