

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: P260436

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260436
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-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2664.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

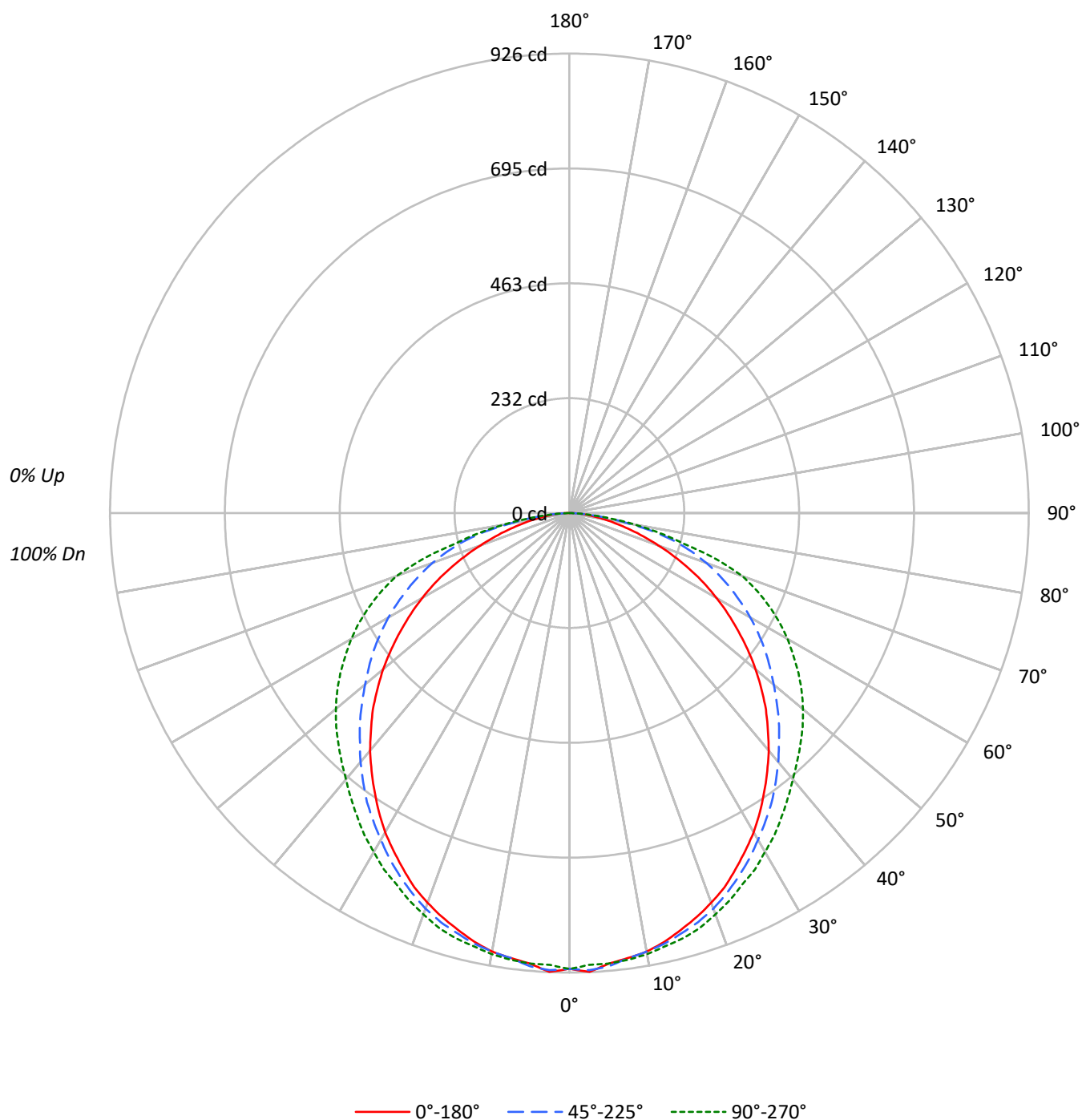
Input Watts (W): 30.915432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2471	2471	2471
5°	2462	2476	2462
10°	2452	2452	2466
15°	2422	2441	2471
20°	2394	2429	2464
25°	2352	2398	2451
30°	2308	2363	2450
35°	2250	2336	2452
40°	2196	2301	2461
45°	2132	2272	2506
50°	2051	2250	2573
55°	1953	2258	2645
60°	1843	2268	2731
65°	1699	2281	2829
70°	1506	2308	2915
75°	1278	2301	2483
80°	1062	1850	2069
85°	923	1247	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.3
10°-20°	247.5	9.3
20°-30°	372.4	14.0
30°-40°	446.3	16.8
40°-50°	465.4	17.5
50°-60°	433.3	16.3
60°-70°	351.8	13.2
70°-80°	212.0	8.0
80°-90°	48.6	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°	706.7	26.5
0°-40°	1152.9	43.3
0°-60°	2051.6	77.0
0°-90°	2664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	911	911	917	918	911	87
15°	869	873	876	882	887	245
25°	792	797	808	818	825	365
35°	685	694	711	732	746	429
45°	560	571	597	636	658	431
55°	416	434	481	534	564	372
65°	267	295	358	414	444	264
75°	123	163	221	235	239	133
85°	30	37	40	39	39	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.4	918.4	918.4	918.4	918.4
2.5°	925.5	923.7	922.0	916.7	911.4
5°	911.4	911.4	916.7	918.4	911.4
7.5°	904.4	904.4	904.4	911.4	907.9
10°	897.4	897.4	897.4	902.6	902.6
12.5°	885.1	886.8	888.6	890.3	893.9
15°	869.3	872.8	876.3	881.6	886.8
17.5°	853.5	857.0	864.0	869.3	876.3
20°	835.9	839.4	848.2	853.5	860.5
22.5°	816.6	818.3	828.9	835.9	844.7
25°	792.0	797.3	807.8	818.3	825.4
27.5°	767.4	772.7	785.0	799.0	809.6
30°	742.8	748.1	760.4	778.0	788.5
32.5°	714.7	721.8	735.8	756.9	769.2
35°	684.9	693.7	711.2	732.3	746.3
37.5°	655.0	663.8	683.1	709.5	723.5
40°	625.2	634.0	655.0	683.1	700.7
42.5°	591.8	602.3	625.2	658.5	679.6
45°	560.2	570.7	597.1	635.7	658.5
47.5°	525.1	537.4	567.2	611.1	637.5
50°	490.0	504.0	537.4	586.5	614.6
52.5°	453.1	468.9	509.3	560.2	590.1
55°	416.2	433.8	481.2	533.9	563.7
57.5°	379.3	398.6	451.3	505.8	535.6
60°	342.4	363.5	421.5	477.7	507.5
62.5°	305.6	328.4	389.9	446.1	477.7
65°	266.9	295.0	358.2	414.4	444.3
67.5°	228.3	261.7	326.6	381.1	409.2
70°	191.4	228.3	293.3	344.2	370.5
72.5°	156.3	194.9	258.1	302.1	312.6
75°	122.9	163.3	221.3	235.3	238.8
77.5°	94.8	131.7	175.6	179.1	187.9
80°	68.5	100.1	119.4	130.0	133.5
82.5°	47.4	68.5	79.0	80.8	82.5
85°	29.9	36.9	40.4	38.6	38.6
87.5°	15.8	14.0	12.3	8.8	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)