

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: P260488

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260488
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-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

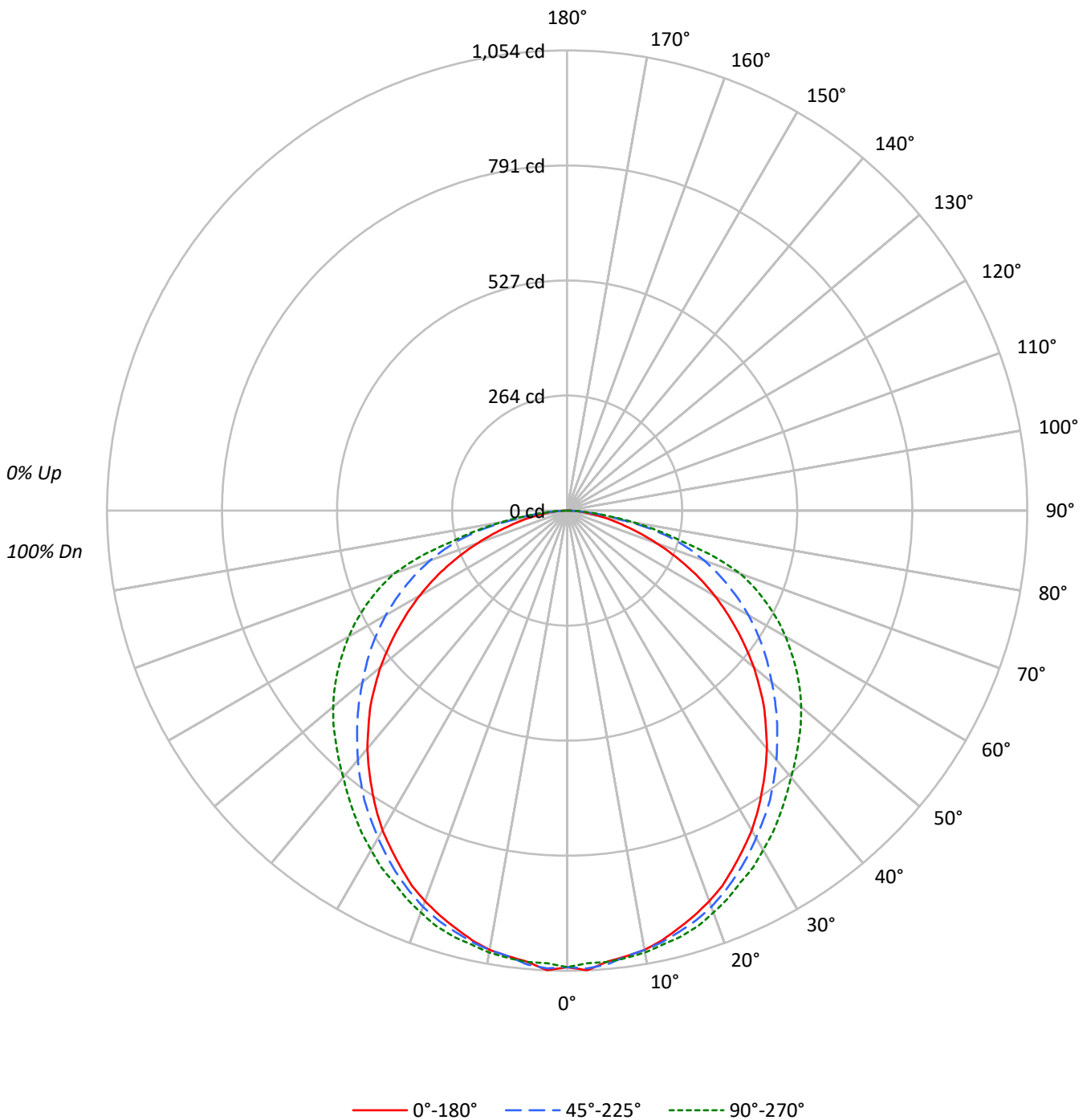
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2814	2814	2814
5°	2803	2819	2803
10°	2792	2792	2808
15°	2757	2779	2813
20°	2725	2765	2806
25°	2677	2731	2790
30°	2628	2690	2789
35°	2561	2660	2791
40°	2500	2620	2802
45°	2427	2587	2853
50°	2335	2561	2930
55°	2223	2570	3011
60°	2098	2582	3110
65°	1935	2597	3221
70°	1714	2627	3319
75°	1456	2619	2827
80°	1209	2108	2356
85°	1050	1420	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.3
10°-20°	281.8	9.3
20°-30°	424.0	14.0
30°-40°	508.1	16.8
40°-50°	529.8	17.5
50°-60°	493.3	16.3
60°-70°	400.5	13.2
70°-80°	241.4	8.0
80°-90°	55.4	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°	804.6	26.5
0°-40°	1312.6	43.3
0°-60°	2335.7	77.0
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1038	1038	1044	1046	1038	99
15°	990	994	998	1004	1010	279
25°	902	908	920	932	940	416
35°	780	790	810	834	850	488
45°	638	650	680	724	750	491
55°	474	494	548	608	642	424
65°	304	336	408	472	506	301
75°	140	186	252	268	272	151
85°	34	42	46	44	44	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1053.7	1051.7	1049.7	1043.7	1037.7
5°	1037.7	1037.7	1043.7	1045.7	1037.7
7.5°	1029.7	1029.7	1029.7	1037.7	1033.7
10°	1021.7	1021.7	1021.7	1027.7	1027.7
12.5°	1007.7	1009.7	1011.7	1013.7	1017.7
15°	989.7	993.7	997.7	1003.7	1009.7
17.5°	971.7	975.7	983.7	989.7	997.7
20°	951.7	955.7	965.7	971.7	979.7
22.5°	929.7	931.7	943.7	951.7	961.7
25°	901.7	907.7	919.7	931.7	939.7
27.5°	873.7	879.7	893.7	909.7	921.7
30°	845.7	851.7	865.7	885.7	897.7
32.5°	813.7	821.7	837.7	861.7	875.7
35°	779.7	789.7	809.7	833.7	849.7
37.5°	745.8	755.8	777.8	807.7	823.7
40°	711.8	721.8	745.8	777.8	797.7
42.5°	673.8	685.8	711.8	749.8	773.8
45°	637.8	649.8	679.8	723.8	749.8
47.5°	597.8	611.8	645.8	695.8	725.8
50°	557.8	573.8	611.8	667.8	699.8
52.5°	515.8	533.8	579.8	637.8	671.8
55°	473.8	493.8	547.8	607.8	641.8
57.5°	431.9	453.9	513.8	575.8	609.8
60°	389.9	413.9	479.8	543.8	577.8
62.5°	347.9	373.9	443.9	507.8	543.8
65°	303.9	335.9	407.9	471.8	505.8
67.5°	259.9	297.9	371.9	433.9	465.9
70°	217.9	259.9	333.9	391.9	421.9
72.5°	177.9	221.9	293.9	343.9	355.9
75°	140.0	185.9	251.9	267.9	271.9
77.5°	108.0	150.0	199.9	203.9	213.9
80°	78.0	114.0	136.0	148.0	152.0
82.5°	54.0	78.0	90.0	92.0	94.0
85°	34.0	42.0	46.0	44.0	44.0
87.5°	18.0	16.0	14.0	10.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)