

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: P260487

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260487
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

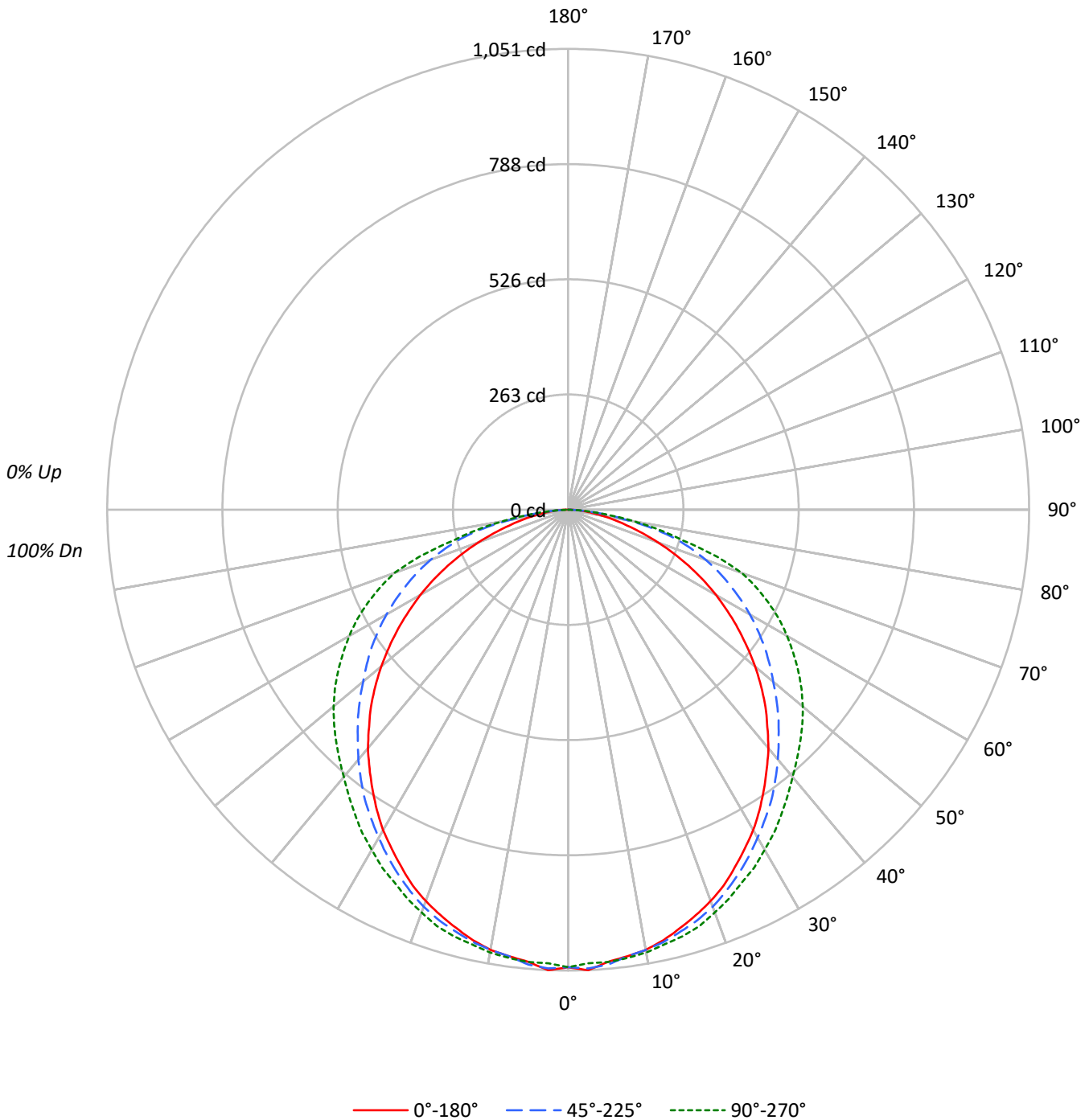
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2807	2807	2807
5°	2797	2813	2797
10°	2785	2785	2802
15°	2751	2773	2806
20°	2719	2759	2799
25°	2671	2725	2784
30°	2622	2684	2783
35°	2556	2654	2785
40°	2494	2614	2796
45°	2422	2581	2847
50°	2330	2555	2923
55°	2218	2564	3004
60°	2094	2576	3103
65°	1931	2591	3214
70°	1710	2621	3312
75°	1451	2613	2821
80°	1206	2101	2349
85°	1047	1417	1355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.3
10°-20°	281.1	9.3
20°-30°	423.0	14.0
30°-40°	506.9	16.8
40°-50°	528.6	17.5
50°-60°	492.1	16.3
60°-70°	399.6	13.2
70°-80°	240.8	8.0
80°-90°	55.2	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°	802.7	26.5
0°-40°	1309.6	43.3
0°-60°	2330.4	77.0
0°-90°	3026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1035	1035	1041	1043	1035	98
15°	987	991	995	1001	1007	279
25°	900	906	918	930	938	415
35°	778	788	808	832	848	487
45°	636	648	678	722	748	490
55°	473	493	547	606	640	423
65°	303	335	407	471	505	300
75°	140	186	251	267	271	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°	1043.3	1043.3	1043.3	1043.3	1043.3
2.5°	1051.2	1049.2	1047.2	1041.3	1035.3
5°	1035.3	1035.3	1041.3	1043.3	1035.3
7.5°	1027.3	1027.3	1027.3	1035.3	1031.3
10°	1019.3	1019.3	1019.3	1025.3	1025.3
12.5°	1005.4	1007.3	1009.3	1011.3	1015.3
15°	987.4	991.4	995.4	1001.4	1007.3
17.5°	969.4	973.4	981.4	987.4	995.4
20°	949.5	953.5	963.5	969.4	977.4
22.5°	927.6	929.6	941.5	949.5	959.5
25°	899.6	905.6	917.6	929.6	937.5
27.5°	871.7	877.7	891.7	907.6	919.6
30°	843.8	849.8	863.7	883.7	895.6
32.5°	811.9	819.8	835.8	859.7	873.7
35°	778.0	787.9	807.9	831.8	847.8
37.5°	744.0	754.0	776.0	805.9	821.8
40°	710.1	720.1	744.0	776.0	795.9
42.5°	672.2	684.2	710.1	748.0	772.0
45°	636.3	648.3	678.2	722.1	748.0
47.5°	596.4	610.4	644.3	694.2	724.1
50°	556.5	572.5	610.4	666.2	698.2
52.5°	514.6	532.6	578.5	636.3	670.2
55°	472.8	492.7	546.6	606.4	640.3
57.5°	430.9	452.8	512.6	574.5	608.4
60°	389.0	412.9	478.7	542.6	576.5
62.5°	347.1	373.0	442.8	506.7	542.6
65°	303.2	335.1	406.9	470.8	504.7
67.5°	259.3	297.2	371.0	432.9	464.8
70°	217.4	259.3	333.1	391.0	420.9
72.5°	177.5	221.4	293.2	343.1	355.1
75°	139.6	185.5	251.3	267.3	271.3
77.5°	107.7	149.6	199.5	203.5	213.4
80°	77.8	113.7	135.6	147.6	151.6
82.5°	53.9	77.8	89.8	91.8	93.8
85°	33.9	41.9	45.9	43.9	43.9
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)