

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: P259292

Luminaire Tested: **22CZ-LD5-29-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2964.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

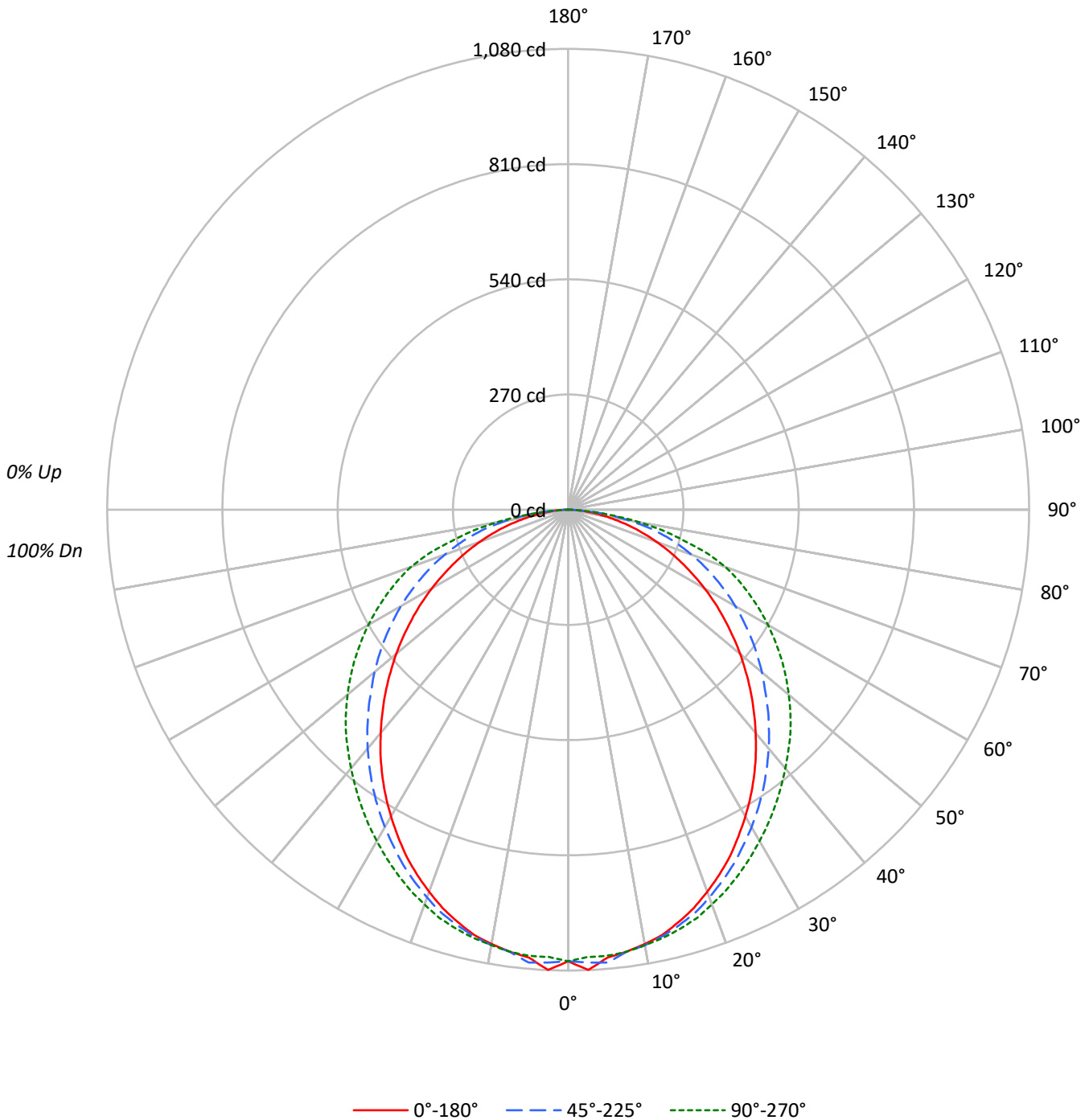
Input Watts (W): 21.39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2847	2847	2847
5°	2846	2877	2834
10°	2824	2832	2832
15°	2787	2807	2831
20°	2728	2769	2819
25°	2662	2722	2803
30°	2580	2669	2786
35°	2495	2619	2780
40°	2400	2567	2780
45°	2304	2518	2803
50°	2202	2480	2824
55°	2096	2455	2860
60°	1986	2436	2909
65°	1863	2423	2982
70°	1735	2415	3084
75°	1573	2413	2923
80°	1362	2233	2591
85°	1158	1692	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.4
10°-20°	284.2	9.6
20°-30°	422.8	14.3
30°-40°	500.1	16.9
40°-50°	514.0	17.3
50°-60°	469.7	15.8
60°-70°	375.7	12.7
70°-80°	235.8	8.0
80°-90°	61.4	2.1
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°	807.4	27.2
0°-40°	1307.4	44.1
0°-60°	2291.1	77.3
0°-90°	2964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1054	1054	1065	1058	1049	100
15°	1000	1002	1008	1013	1016	282
25°	896	902	917	933	944	412
35°	760	770	797	827	846	475
45°	605	621	662	711	736	467
55°	447	468	523	581	610	400
65°	293	318	380	438	468	290
75°	151	180	232	267	281	161
85°	38	48	55	53	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.0	1058.0	1058.0	1058.0	1058.0
2.5°	1079.6	1075.2	1062.3	1053.6	1049.3
5°	1053.6	1053.6	1065.2	1058.0	1049.3
7.5°	1045.0	1045.0	1045.0	1066.6	1045.0
10°	1033.4	1034.9	1036.3	1045.0	1036.3
12.5°	1020.5	1020.5	1023.4	1026.2	1027.7
15°	1000.3	1001.7	1007.5	1013.3	1016.2
17.5°	978.7	983.0	990.2	997.4	1003.2
20°	952.7	958.5	967.1	978.7	984.4
22.5°	925.3	931.1	942.6	955.6	965.7
25°	896.5	902.3	916.7	932.6	944.1
27.5°	863.4	870.6	887.9	909.5	921.0
30°	830.2	838.9	859.0	883.5	896.5
32.5°	795.6	805.7	828.8	856.2	872.0
35°	759.6	769.7	797.1	827.3	846.1
37.5°	722.1	733.6	763.9	798.5	818.7
40°	683.2	696.2	730.8	768.2	791.3
42.5°	644.3	658.7	696.2	740.9	763.9
45°	605.4	621.2	661.6	710.6	736.5
47.5°	565.0	583.7	625.5	680.3	706.3
50°	526.1	544.8	592.4	648.6	674.6
52.5°	485.7	507.4	557.8	615.5	642.8
55°	446.8	468.4	523.2	580.9	609.7
57.5°	407.9	429.5	487.2	546.3	575.1
60°	369.0	392.0	452.6	510.2	540.5
62.5°	330.1	354.6	416.6	475.6	504.5
65°	292.6	318.5	380.5	438.2	468.4
67.5°	256.6	283.9	344.5	400.7	431.0
70°	220.5	247.9	307.0	361.8	392.0
72.5°	185.9	213.3	271.0	320.0	343.0
75°	151.3	180.2	232.1	266.6	281.1
77.5°	118.2	147.0	191.7	214.8	230.6
80°	87.9	112.4	144.1	161.4	167.2
82.5°	60.5	80.7	100.9	105.2	108.1
85°	37.5	47.6	54.8	53.3	53.3
87.5°	17.3	18.7	15.9	11.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)