

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: P260328

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

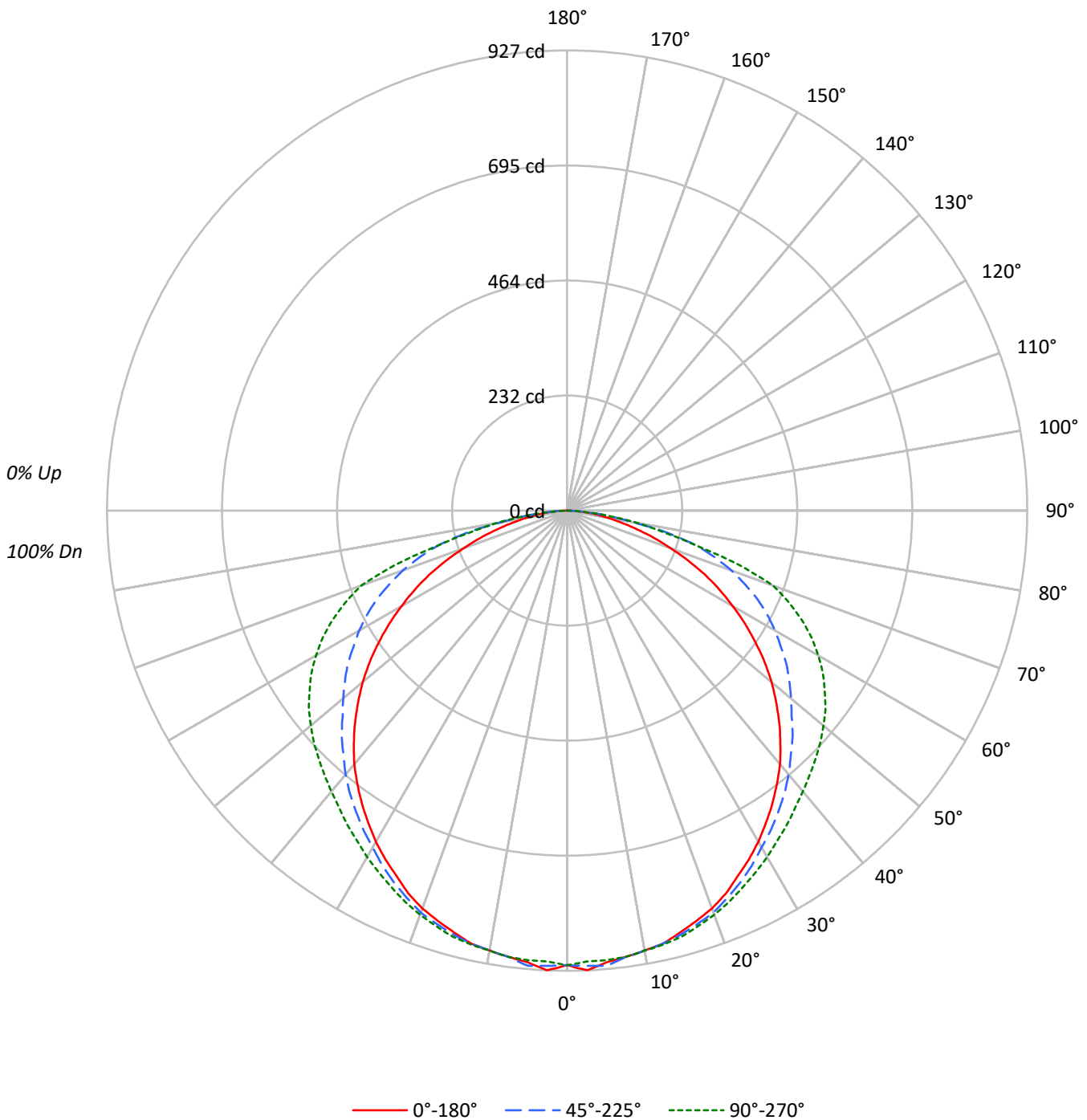
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2464	2464	2464
5°	2468	2486	2455
10°	2459	2459	2459
15°	2451	2464	2476
20°	2443	2468	2481
25°	2413	2453	2486
30°	2393	2435	2504
35°	2368	2435	2537
40°	2344	2438	2595
45°	2300	2445	2692
50°	2249	2465	2821
55°	2175	2532	2973
60°	2073	2603	3145
65°	1953	2695	3322
70°	1744	2766	3471
75°	1513	2770	2747
80°	1283	2047	2221
85°	1105	1383	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.0
10°-20°	249.7	8.7
20°-30°	380.5	13.2
30°-40°	465.6	16.1
40°-50°	500.9	17.4
50°-60°	485.3	16.8
60°-70°	411.1	14.3
70°-80°	248.5	8.6
80°-90°	54.6	1.9
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°	717.1	24.9
0°-40°	1182.7	41.0
0°-60°	2168.9	75.2
0°-90°	2883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	914	914	920	916	909	87
15°	880	882	884	887	889	248
25°	813	817	826	833	837	375
35°	721	725	741	761	772	451
45°	604	616	643	683	708	466
55°	464	484	540	602	634	414
65°	307	340	423	490	522	302
75°	146	197	266	271	264	156
85°	36	42	45	42	40	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.7	915.7	915.7	915.7	915.7
2.5°	926.9	924.7	918.0	913.5	909.0
5°	913.5	913.5	920.2	915.7	909.0
7.5°	906.8	906.8	906.8	918.0	906.8
10°	900.0	902.3	900.0	909.0	900.0
12.5°	893.3	893.3	893.3	895.6	895.6
15°	879.9	882.1	884.4	886.6	888.9
17.5°	866.5	868.7	873.2	875.4	877.7
20°	853.0	855.3	862.0	862.0	866.5
22.5°	835.1	835.1	844.1	846.3	853.0
25°	812.7	817.2	826.2	832.9	837.4
27.5°	792.6	797.1	806.0	815.0	821.7
30°	770.2	774.7	783.6	797.1	806.0
32.5°	745.6	750.0	763.5	779.1	788.1
35°	720.9	725.4	741.1	761.2	772.4
37.5°	694.1	700.8	718.7	741.1	754.5
40°	667.2	673.9	694.1	718.7	738.8
42.5°	635.9	644.8	667.2	700.8	723.2
45°	604.5	615.7	642.6	682.9	707.5
47.5°	570.9	582.1	613.5	665.0	691.8
50°	537.3	550.8	588.8	644.8	673.9
52.5°	501.5	515.0	564.2	624.7	656.0
55°	463.5	483.6	539.6	602.3	633.6
57.5°	425.4	447.8	510.5	577.6	611.2
60°	385.1	412.0	483.6	550.8	584.4
62.5°	347.0	376.1	454.5	521.7	555.3
65°	306.7	340.3	423.2	490.3	521.7
67.5°	264.2	306.7	387.3	452.3	483.6
70°	221.7	270.9	351.5	412.0	441.1
72.5°	183.6	235.1	311.2	362.7	362.7
75°	145.5	197.0	266.4	270.9	264.2
77.5°	111.9	161.2	208.2	190.3	194.8
80°	82.8	123.1	132.1	138.8	143.3
82.5°	56.0	82.8	85.1	89.6	89.6
85°	35.8	42.5	44.8	42.5	40.3
87.5°	15.7	17.9	13.4	9.0	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)