

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: P259283

Luminaire Tested: **22CZ-LD5-24-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259283
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-LD5-24-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: 2534.0 lumens
Efficiency: N/A
Efficacy: 140.5 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

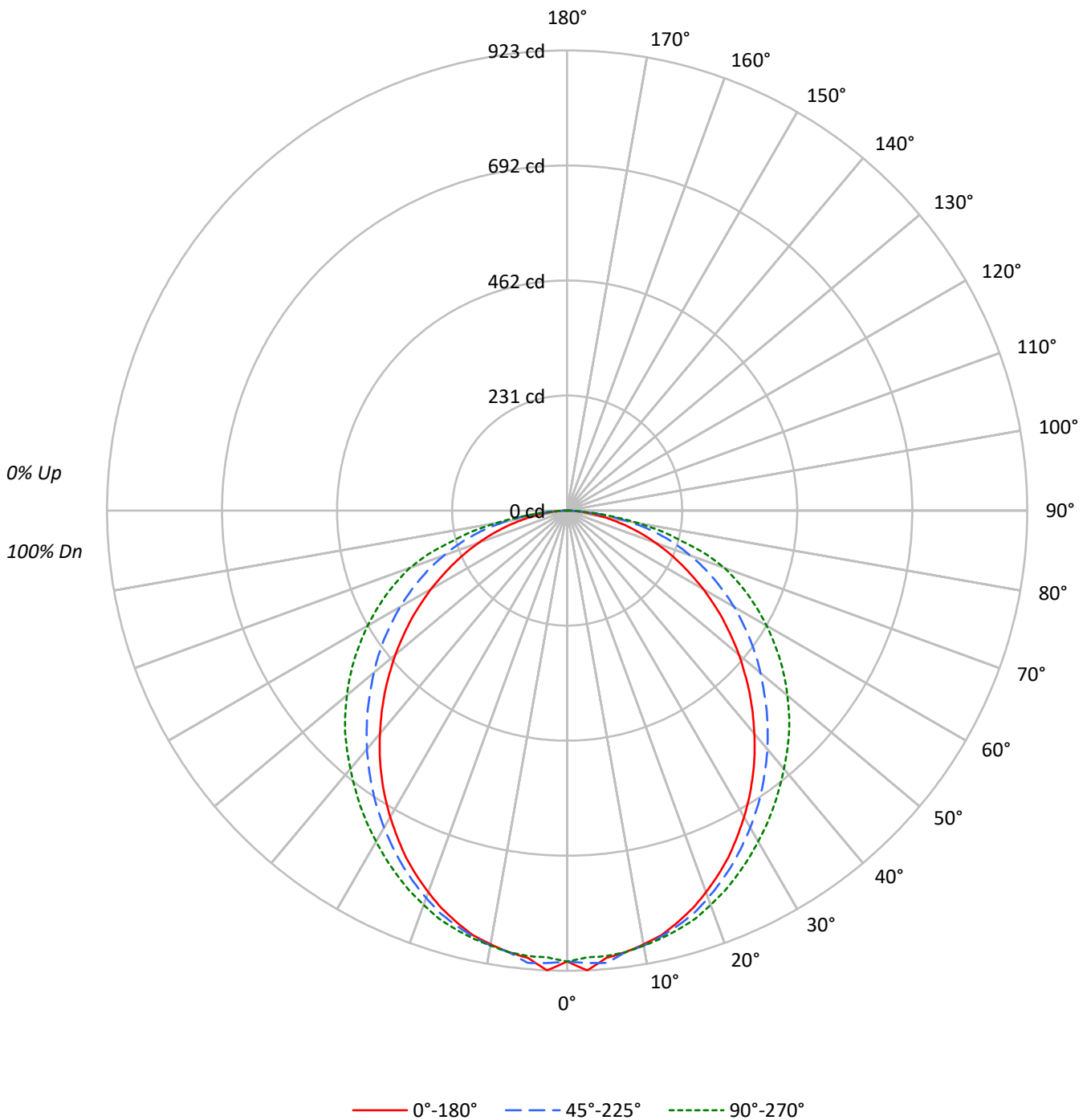
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2434	2434	2434
5°	2433	2460	2423
10°	2414	2421	2421
15°	2383	2400	2420
20°	2332	2368	2410
25°	2276	2327	2396
30°	2206	2282	2382
35°	2133	2238	2376
40°	2052	2194	2376
45°	1969	2152	2396
50°	1883	2120	2414
55°	1792	2099	2445
60°	1698	2082	2487
65°	1592	2071	2550
70°	1483	2065	2637
75°	1345	2063	2498
80°	1165	1909	2214
85°	988	1445	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.4
10°-20°	243.0	9.6
20°-30°	361.5	14.3
30°-40°	427.5	16.9
40°-50°	439.4	17.3
50°-60°	401.5	15.8
60°-70°	321.2	12.7
70°-80°	201.6	8.0
80°-90°	52.5	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°	690.3	27.2
0°-40°	1117.8	44.1
0°-60°	1958.7	77.3
0°-90°	2534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	901	901	911	904	897	86
15°	855	856	861	866	869	241
25°	766	771	784	797	807	352
35°	649	658	681	707	723	406
45°	518	531	566	608	630	399
55°	382	400	447	497	521	342
65°	250	272	325	375	400	248
75°	129	154	198	228	240	137
85°	32	41	47	46	46	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.5	904.5	904.5	904.5	904.5
2.5°	923.0	919.3	908.2	900.8	897.1
5°	900.8	900.8	910.6	904.5	897.1
7.5°	893.4	893.4	893.4	911.9	893.4
10°	883.5	884.8	886.0	893.4	886.0
12.5°	872.4	872.4	874.9	877.4	878.6
15°	855.2	856.4	861.3	866.3	868.7
17.5°	836.7	840.4	846.6	852.7	857.6
20°	814.5	819.4	826.8	836.7	841.6
22.5°	791.1	796.0	805.9	817.0	825.6
25°	766.5	771.4	783.7	797.3	807.1
27.5°	738.1	744.3	759.1	777.5	787.4
30°	709.8	717.2	734.4	755.4	766.5
32.5°	680.2	688.8	708.5	732.0	745.5
35°	649.4	658.0	681.4	707.3	723.3
37.5°	617.4	627.2	653.1	682.7	699.9
40°	584.1	595.2	624.7	656.8	676.5
42.5°	550.8	563.1	595.2	633.4	653.1
45°	517.5	531.1	565.6	607.5	629.7
47.5°	483.0	499.1	534.8	581.6	603.8
50°	449.8	465.8	506.5	554.5	576.7
52.5°	415.3	433.8	476.9	526.2	549.6
55°	382.0	400.5	447.3	496.6	521.2
57.5°	348.7	367.2	416.5	467.0	491.7
60°	315.5	335.2	386.9	436.2	462.1
62.5°	282.2	303.1	356.1	406.6	431.3
65°	250.1	272.3	325.3	374.6	400.5
67.5°	219.3	242.8	294.5	342.6	368.4
70°	188.5	211.9	262.5	309.3	335.2
72.5°	159.0	182.4	231.7	273.6	293.3
75°	129.4	154.0	198.4	228.0	240.3
77.5°	101.0	125.7	163.9	183.6	197.2
80°	75.2	96.1	123.2	138.0	142.9
82.5°	51.8	69.0	86.3	90.0	92.4
85°	32.0	40.7	46.8	45.6	45.6
87.5°	14.8	16.0	13.6	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)