

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: P259349

Luminaire Tested: **22CZ-LD5-34-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259349
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-LD5-34-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2692.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

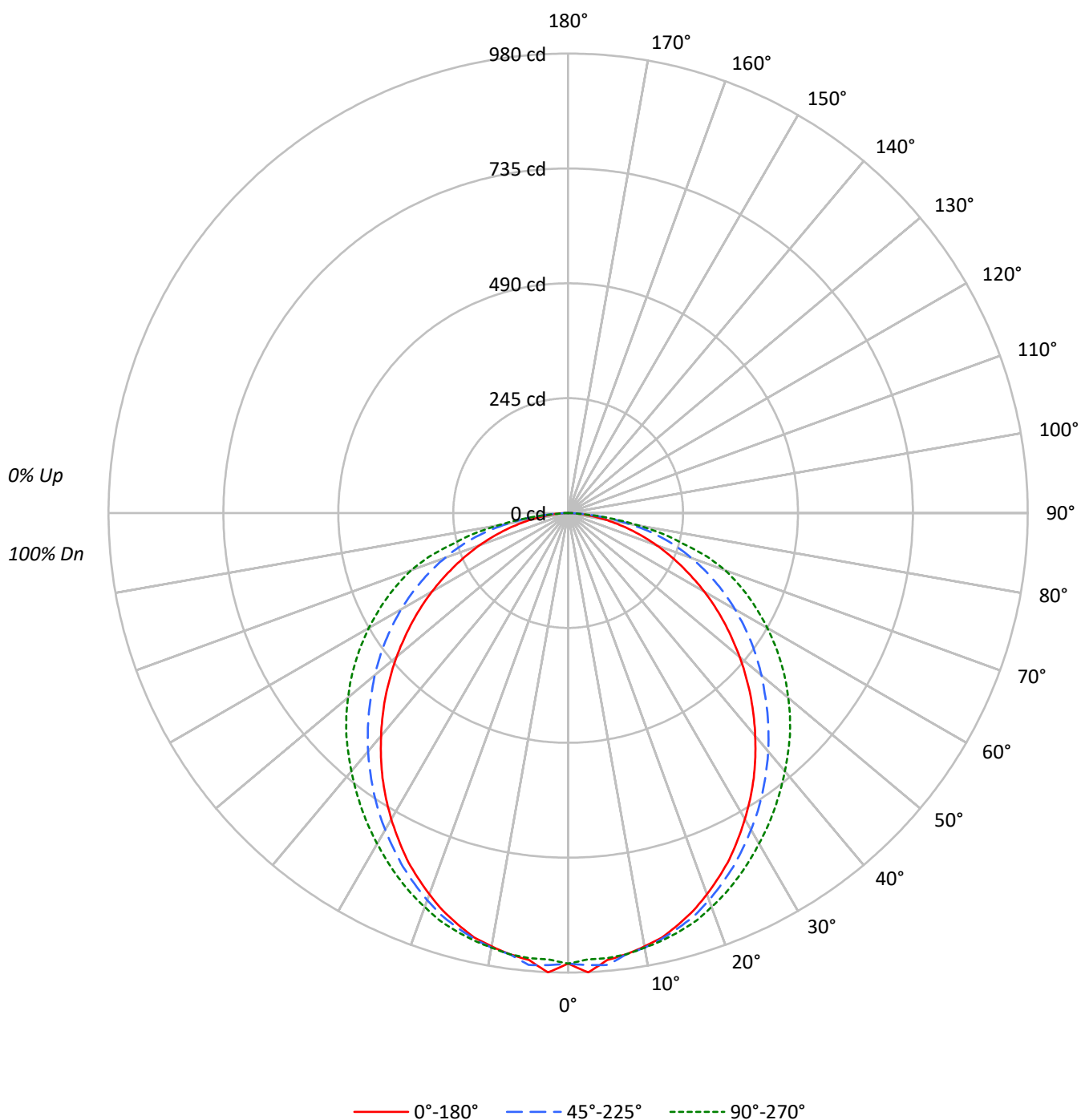
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2586	2586	2586
5°	2585	2613	2574
10°	2565	2572	2572
15°	2531	2549	2571
20°	2478	2515	2560
25°	2417	2472	2546
30°	2343	2424	2530
35°	2266	2378	2524
40°	2180	2331	2525
45°	2092	2287	2546
50°	2000	2252	2565
55°	1904	2229	2598
60°	1803	2213	2642
65°	1692	2201	2709
70°	1576	2194	2802
75°	1430	2192	2654
80°	1238	2029	2354
85°	1050	1535	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.4
10°-20°	258.1	9.6
20°-30°	384.0	14.3
30°-40°	454.2	16.9
40°-50°	466.8	17.3
50°-60°	426.6	15.8
60°-70°	341.2	12.7
70°-80°	214.2	8.0
80°-90°	55.8	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°	733.3	27.2
0°-40°	1187.5	44.1
0°-60°	2080.8	77.3
0°-90°	2692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	957	957	967	961	953	91
15°	908	910	915	920	923	256
25°	814	820	833	847	857	374
35°	690	699	724	751	768	431
45°	550	564	601	645	669	424
55°	406	426	475	528	554	363
65°	266	289	346	398	426	264
75°	138	164	211	242	255	146
85°	34	43	50	48	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.9	960.9	960.9	960.9	960.9
2.5°	980.5	976.6	964.8	956.9	953.0
5°	956.9	956.9	967.4	960.9	953.0
7.5°	949.1	949.1	949.1	968.7	949.1
10°	938.6	939.9	941.2	949.1	941.2
12.5°	926.8	926.8	929.4	932.1	933.4
15°	908.5	909.8	915.0	920.3	922.9
17.5°	888.9	892.8	899.3	905.9	911.1
20°	865.3	870.5	878.4	888.9	894.1
22.5°	840.4	845.7	856.1	867.9	877.1
25°	814.2	819.5	832.6	847.0	857.4
27.5°	784.1	790.7	806.4	826.0	836.5
30°	754.0	761.9	780.2	802.5	814.2
32.5°	722.6	731.8	752.7	777.6	792.0
35°	689.9	699.0	723.9	751.4	768.4
37.5°	655.8	666.3	693.8	725.2	743.6
40°	620.5	632.3	663.7	697.7	718.7
42.5°	585.2	598.3	632.3	672.9	693.8
45°	549.8	564.2	600.9	645.4	668.9
47.5°	513.2	530.2	568.1	617.9	641.4
50°	477.8	494.8	538.0	589.1	612.6
52.5°	441.2	460.8	506.6	559.0	583.9
55°	405.8	425.5	475.2	527.6	553.7
57.5°	370.5	390.1	442.5	496.1	522.3
60°	335.1	356.1	411.1	463.4	490.9
62.5°	299.8	322.0	378.3	432.0	458.2
65°	265.7	289.3	345.6	398.0	425.5
67.5°	233.0	257.9	312.9	363.9	391.4
70°	200.3	225.2	278.8	328.6	356.1
72.5°	168.9	193.7	246.1	290.6	311.6
75°	137.5	163.6	210.8	242.2	255.3
77.5°	107.3	133.5	174.1	195.1	209.5
80°	79.9	102.1	130.9	146.6	151.9
82.5°	55.0	73.3	91.6	95.6	98.2
85°	34.0	43.2	49.7	48.4	48.4
87.5°	15.7	17.0	14.4	10.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)