

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: P259218

Luminaire Tested: **22CZ-LD5-29-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259218
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-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

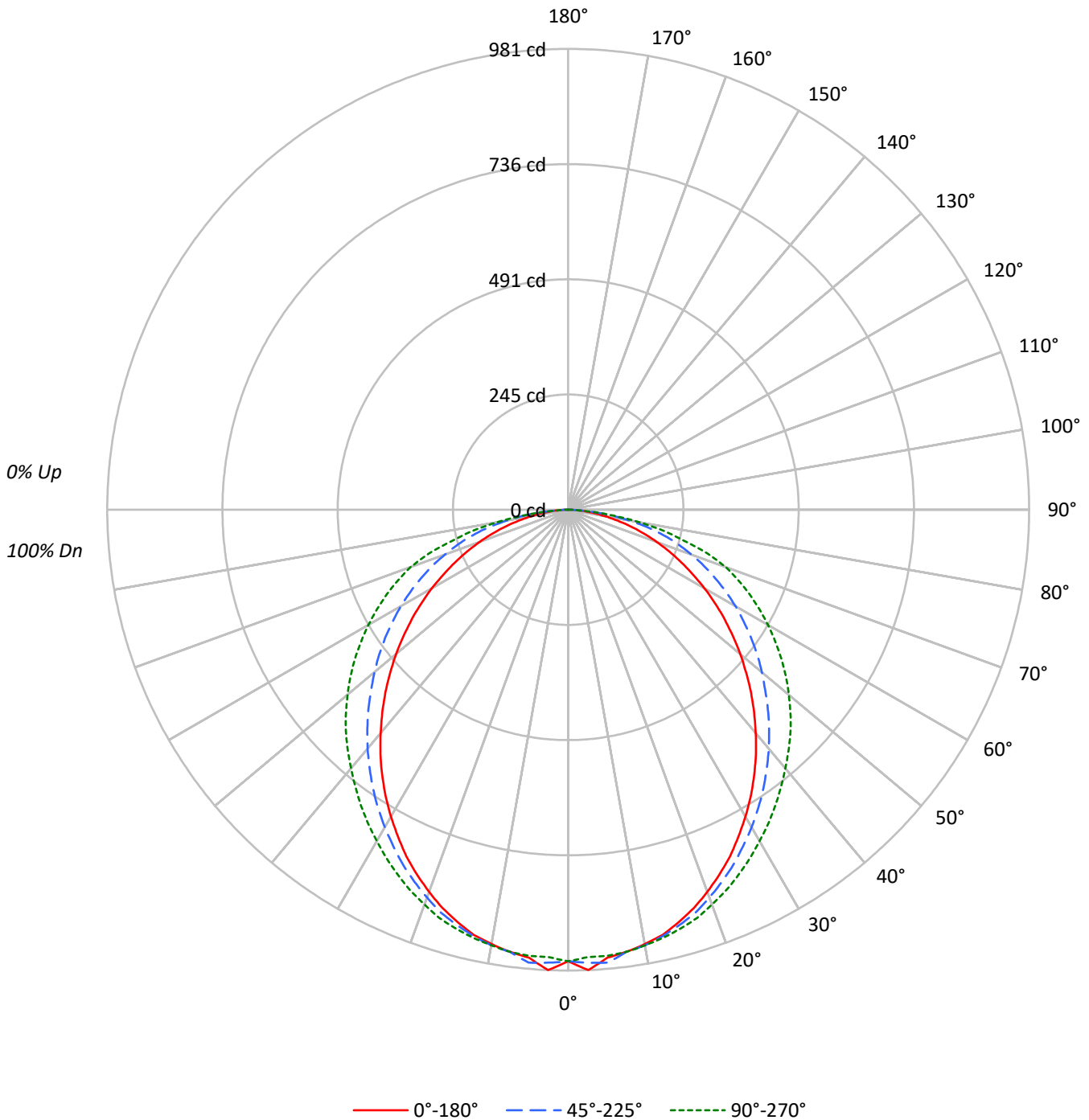
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2587	2587	2587
5°	2586	2614	2575
10°	2566	2573	2573
15°	2532	2550	2572
20°	2479	2516	2561
25°	2419	2473	2547
30°	2344	2425	2531
35°	2267	2379	2525
40°	2180	2333	2526
45°	2093	2288	2547
50°	2001	2253	2566
55°	1905	2230	2599
60°	1804	2213	2643
65°	1692	2201	2710
70°	1577	2194	2803
75°	1430	2192	2655
80°	1238	2030	2354
85°	1050	1538	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.4
10°-20°	258.2	9.6
20°-30°	384.2	14.3
30°-40°	454.3	16.9
40°-50°	467.0	17.3
50°-60°	426.7	15.8
60°-70°	341.4	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°	733.6	27.2
0°-40°	1187.9	44.1
0°-60°	2081.6	77.3
0°-90°	2693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	957	957	968	961	953	91
15°	909	910	915	921	923	256
25°	815	820	833	847	858	375
35°	690	699	724	752	769	431
45°	550	564	601	646	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°	961.2	961.2	961.2	961.2	961.2
2.5°	980.9	976.9	965.2	957.3	953.4
5°	957.3	957.3	967.8	961.2	953.4
7.5°	949.4	949.4	949.4	969.1	949.4
10°	939.0	940.3	941.6	949.4	941.6
12.5°	927.2	927.2	929.8	932.4	933.7
15°	908.8	910.1	915.4	920.6	923.2
17.5°	889.2	893.1	899.7	906.2	911.5
20°	865.6	870.9	878.7	889.2	894.4
22.5°	840.7	846.0	856.5	868.2	877.4
25°	814.6	819.8	832.9	847.3	857.8
27.5°	784.4	791.0	806.7	826.3	836.8
30°	754.3	762.2	780.5	802.8	814.6
32.5°	722.9	732.0	753.0	777.9	792.3
35°	690.1	699.3	724.2	751.7	768.7
37.5°	656.1	666.6	694.1	725.5	743.8
40°	620.7	632.5	664.0	698.0	719.0
42.5°	585.4	598.5	632.5	673.1	694.1
45°	550.0	564.4	601.1	645.6	669.2
47.5°	513.4	530.4	568.4	618.1	641.7
50°	478.0	495.0	538.2	589.3	612.9
52.5°	441.3	461.0	506.8	559.2	584.1
55°	406.0	425.6	475.4	527.8	553.9
57.5°	370.6	390.3	442.6	496.3	522.5
60°	335.2	356.2	411.2	463.6	491.1
62.5°	299.9	322.2	378.5	432.2	458.3
65°	265.8	289.4	345.7	398.1	425.6
67.5°	233.1	258.0	313.0	364.1	391.6
70°	200.4	225.2	278.9	328.7	356.2
72.5°	168.9	193.8	246.2	290.7	311.7
75°	137.5	163.7	210.8	242.3	255.4
77.5°	107.4	133.6	174.2	195.1	209.5
80°	79.9	102.1	131.0	146.7	151.9
82.5°	55.0	73.3	91.7	95.6	98.2
85°	34.0	43.2	49.8	48.5	48.5
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)