

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: P259287

Luminaire Tested: **22CZ-LD5-29-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259287
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-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: 2691.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

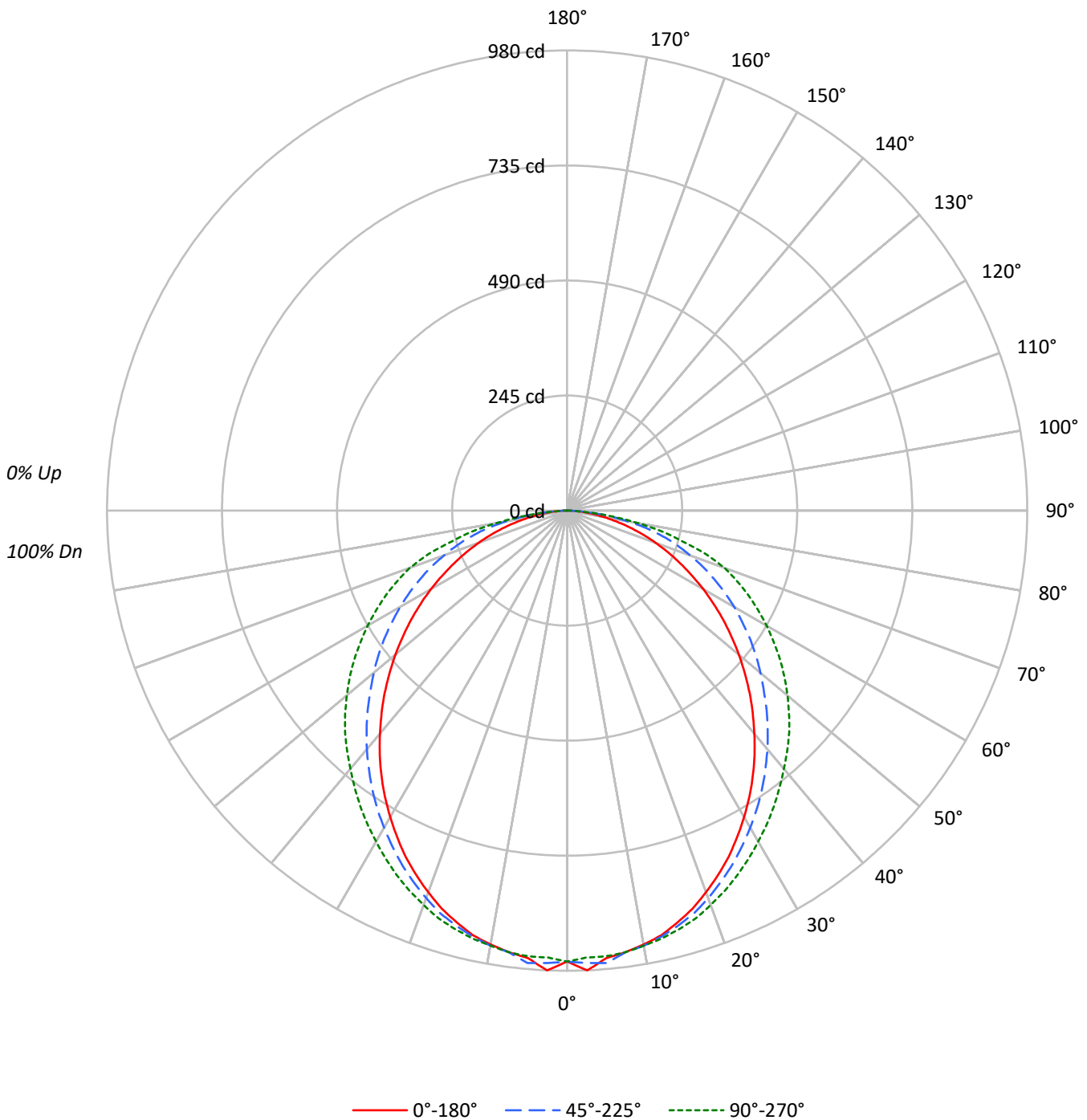
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2585	2585	2585
5°	2584	2612	2573
10°	2564	2571	2571
15°	2530	2548	2570
20°	2477	2515	2560
25°	2417	2471	2545
30°	2342	2423	2529
35°	2265	2377	2523
40°	2179	2331	2524
45°	2092	2286	2545
50°	1999	2251	2564
55°	1903	2228	2597
60°	1803	2211	2641
65°	1691	2200	2708
70°	1575	2193	2800
75°	1429	2191	2653
80°	1237	2029	2352
85°	1050	1535	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.4
10°-20°	258.0	9.6
20°-30°	383.9	14.3
30°-40°	454.0	16.9
40°-50°	466.6	17.3
50°-60°	426.4	15.8
60°-70°	341.1	12.7
70°-80°	214.1	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°	733.0	27.2
0°-40°	1187.0	44.1
0°-60°	2080.1	77.3
0°-90°	2691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	957	957	967	960	953	91
15°	908	910	915	920	923	256
25°	814	819	832	847	857	374
35°	690	699	724	751	768	431
45°	550	564	601	645	669	424
55°	406	425	475	527	554	363
65°	266	289	346	398	425	264
75°	137	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°	960.5	960.5	960.5	960.5	960.5
2.5°	980.1	976.2	964.4	956.6	952.7
5°	956.6	956.6	967.1	960.5	952.7
7.5°	948.7	948.7	948.7	968.4	948.7
10°	938.3	939.6	940.9	948.7	940.9
12.5°	926.5	926.5	929.1	931.7	933.0
15°	908.2	909.5	914.7	919.9	922.6
17.5°	888.5	892.5	899.0	905.5	910.8
20°	865.0	870.2	878.1	888.5	893.8
22.5°	840.1	845.4	855.8	867.6	876.8
25°	813.9	819.2	832.3	846.7	857.1
27.5°	783.8	790.4	806.1	825.7	836.2
30°	753.8	761.6	779.9	802.2	813.9
32.5°	722.3	731.5	752.4	777.3	791.7
35°	689.6	698.8	723.7	751.1	768.1
37.5°	655.6	666.1	693.6	725.0	743.3
40°	620.3	632.1	663.5	697.5	718.4
42.5°	584.9	598.0	632.1	672.6	693.6
45°	549.6	564.0	600.6	645.1	668.7
47.5°	513.0	530.0	567.9	617.7	641.2
50°	477.6	494.6	537.8	588.9	612.4
52.5°	441.0	460.6	506.4	558.8	583.6
55°	405.7	425.3	475.0	527.4	553.5
57.5°	370.3	390.0	442.3	496.0	522.1
60°	335.0	355.9	410.9	463.2	490.7
62.5°	299.7	321.9	378.2	431.8	458.0
65°	265.6	289.2	345.5	397.8	425.3
67.5°	232.9	257.8	312.8	363.8	391.3
70°	200.2	225.1	278.7	328.5	355.9
72.5°	168.8	193.7	246.0	290.5	311.4
75°	137.4	163.6	210.7	242.1	255.2
77.5°	107.3	133.5	174.0	195.0	209.4
80°	79.8	102.1	130.9	146.6	151.8
82.5°	55.0	73.3	91.6	95.5	98.1
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)