

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: P259386

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2747.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

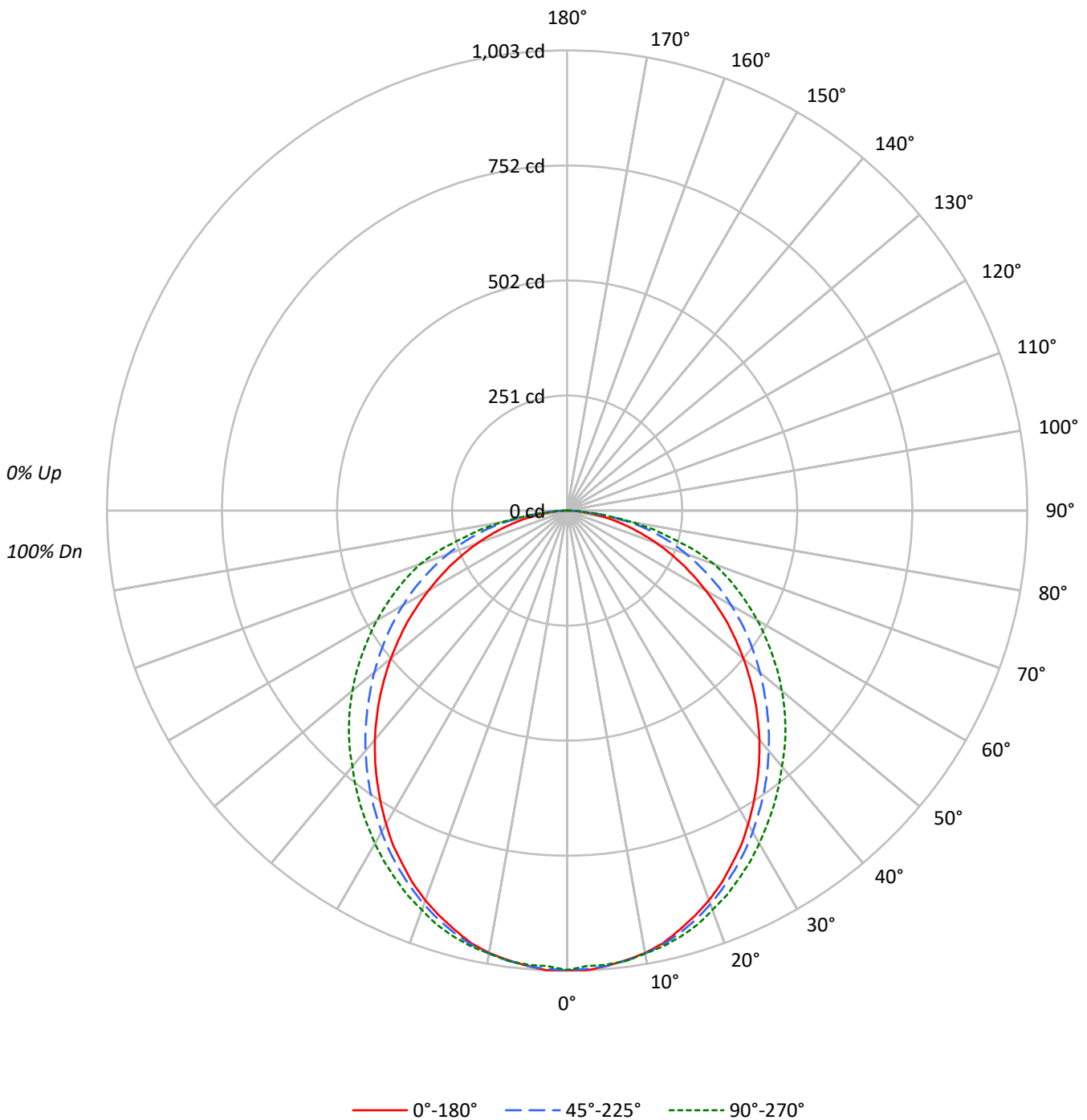
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2695	2695	2695
5°	2691	2691	2684
10°	2675	2679	2679
15°	2635	2654	2676
20°	2588	2615	2652
25°	2523	2566	2629
30°	2452	2513	2603
35°	2371	2458	2579
40°	2290	2401	2558
45°	2199	2345	2561
50°	2099	2298	2557
55°	2000	2259	2556
60°	1882	2223	2578
65°	1764	2193	2613
70°	1629	2170	2678
75°	1468	2153	2483
80°	1288	2004	2168
85°	1059	1507	1343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	268.6	9.8
20°-30°	399.0	14.5
30°-40°	469.7	17.1
40°-50°	478.8	17.4
50°-60°	431.8	15.7
60°-70°	340.2	12.4
70°-80°	209.8	7.6
80°-90°	54.5	2.0
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°	762.2	27.7
0°-40°	1231.9	44.8
0°-60°	2142.6	78.0
0°-90°	2747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	996	998	996	995	994	95
15°	946	950	953	958	960	267
25°	850	855	864	879	885	392
35°	722	730	748	772	785	451
45°	578	587	616	653	673	445
55°	426	441	482	525	545	380
65°	277	297	344	388	410	274
75°	141	165	207	231	239	151
85°	34	44	49	46	44	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.4	1001.4	1001.4	1001.4	1001.4
2.5°	1002.8	1002.8	1000.1	997.5	993.5
5°	996.2	997.5	996.2	994.8	993.5
7.5°	988.2	989.6	989.6	989.6	989.6
10°	979.0	980.3	980.3	980.3	980.3
12.5°	965.8	967.1	968.5	969.8	972.4
15°	946.0	950.0	952.6	957.9	960.5
17.5°	926.2	930.2	934.2	940.8	946.0
20°	903.8	906.4	913.0	921.0	926.2
22.5°	878.7	882.7	889.3	899.8	907.8
25°	849.7	855.0	864.2	878.7	885.3
27.5°	822.0	826.0	837.8	853.7	862.9
30°	789.0	794.3	808.8	828.6	837.8
32.5°	756.0	762.6	778.5	800.9	811.4
35°	721.7	729.6	748.1	771.9	785.1
37.5°	687.4	695.3	716.4	742.8	757.4
40°	651.8	659.7	683.5	712.5	728.3
42.5°	614.9	624.1	650.5	683.5	701.9
45°	577.9	587.1	616.2	653.1	672.9
47.5°	539.6	550.2	581.9	622.8	642.6
50°	501.4	513.3	548.9	591.1	610.9
52.5°	463.1	476.3	514.6	558.1	579.2
55°	426.2	440.7	481.6	525.1	544.9
57.5°	386.6	403.7	447.3	489.5	511.9
60°	349.6	368.1	413.0	455.2	479.0
62.5°	312.7	332.5	380.0	422.2	444.6
65°	277.1	296.9	344.4	387.9	410.3
67.5°	241.5	263.9	310.1	353.6	376.0
70°	207.1	230.9	275.8	318.0	340.4
72.5°	174.2	197.9	242.8	282.4	295.6
75°	141.2	164.9	207.1	230.9	238.8
77.5°	110.8	133.3	170.2	184.7	195.3
80°	83.1	102.9	129.3	138.5	139.9
82.5°	56.7	73.9	89.7	91.0	89.7
85°	34.3	43.5	48.8	46.2	43.5
87.5°	15.8	17.2	15.8	10.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)