

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: P259459

Luminaire Tested: **22CZ-LD5-29-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259459
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-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.0 lumens
Efficiency: N/A
Efficacy: 140.6 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

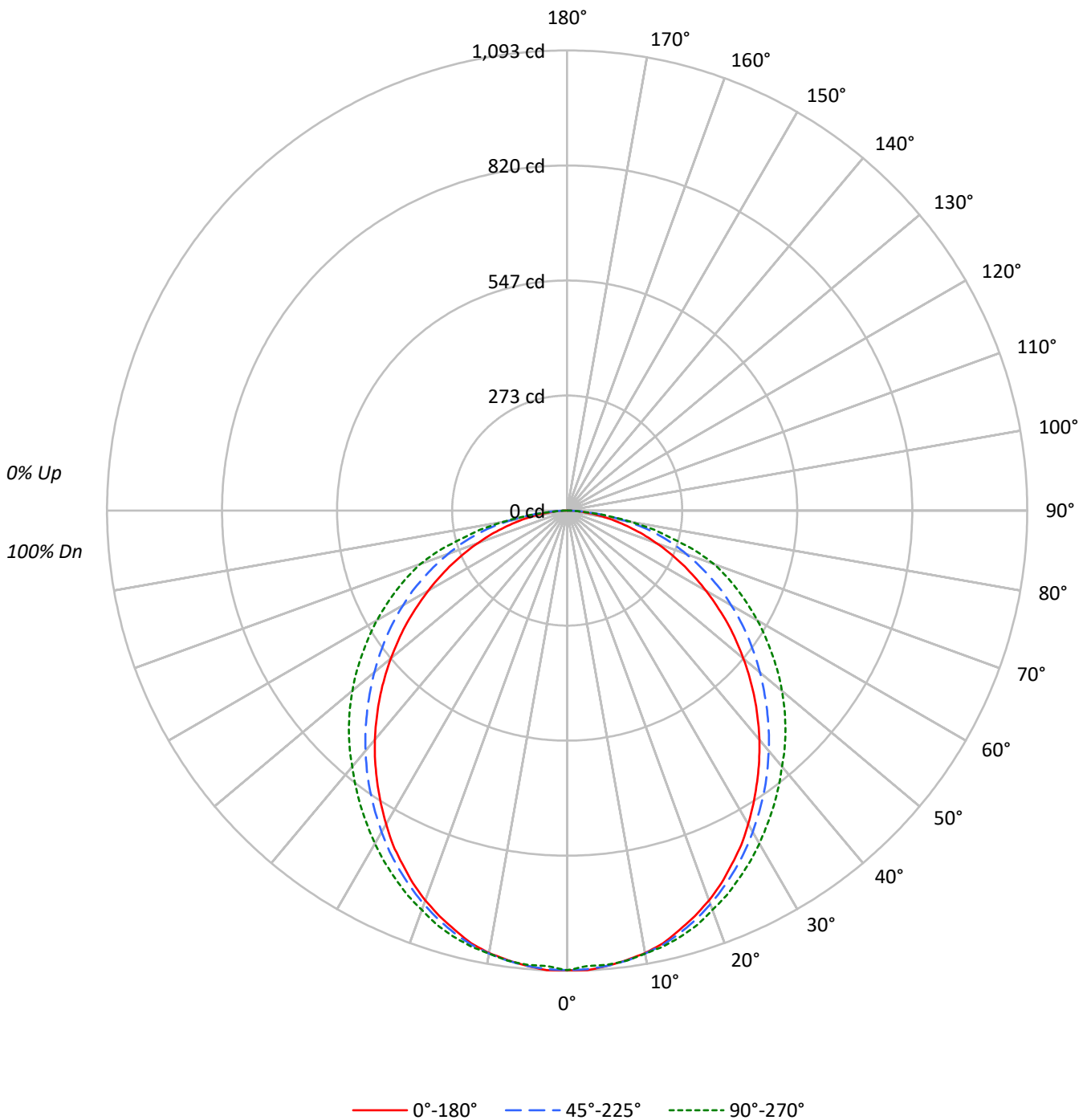
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2937	2937	2937
5°	2933	2933	2925
10°	2916	2920	2920
15°	2873	2893	2917
20°	2821	2850	2891
25°	2750	2797	2865
30°	2672	2739	2838
35°	2584	2679	2811
40°	2496	2617	2788
45°	2397	2556	2791
50°	2288	2504	2787
55°	2179	2463	2786
60°	2051	2422	2809
65°	1923	2390	2848
70°	1777	2365	2919
75°	1600	2348	2706
80°	1404	2183	2362
85°	1155	1643	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.4
10°-20°	292.8	9.8
20°-30°	434.9	14.5
30°-40°	511.9	17.1
40°-50°	521.9	17.4
50°-60°	470.7	15.7
60°-70°	370.7	12.4
70°-80°	228.7	7.6
80°-90°	59.4	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°	830.8	27.7
0°-40°	1342.7	44.8
0°-60°	2335.2	78.0
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1086	1087	1086	1084	1083	103
15°	1031	1035	1038	1044	1047	291
25°	926	932	942	958	965	427
35°	787	795	815	841	856	492
45°	630	640	672	712	733	486
55°	464	480	525	572	594	415
65°	302	324	375	423	447	299
75°	154	180	226	252	260	164
85°	37	48	53	50	48	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.5	1091.5	1091.5	1091.5	1091.5
2.5°	1092.9	1092.9	1090.1	1087.2	1082.9
5°	1085.7	1087.2	1085.7	1084.3	1082.9
7.5°	1077.1	1078.5	1078.5	1078.5	1078.5
10°	1067.0	1068.5	1068.5	1068.5	1068.5
12.5°	1052.7	1054.1	1055.5	1057.0	1059.9
15°	1031.1	1035.4	1038.3	1044.0	1046.9
17.5°	1009.5	1013.8	1018.1	1025.3	1031.1
20°	985.1	987.9	995.1	1003.8	1009.5
22.5°	957.8	962.1	969.3	980.8	989.4
25°	926.1	931.9	941.9	957.8	964.9
27.5°	895.9	900.2	913.2	930.4	940.5
30°	860.0	865.7	881.5	903.1	913.2
32.5°	824.0	831.2	848.5	872.9	884.4
35°	786.6	795.2	815.4	841.3	855.6
37.5°	749.2	757.9	780.9	809.6	825.4
40°	710.4	719.0	744.9	776.6	793.8
42.5°	670.1	680.2	709.0	744.9	765.0
45°	629.9	639.9	671.6	711.8	733.4
47.5°	588.2	599.7	634.2	678.8	700.3
50°	546.5	559.4	598.2	644.3	665.8
52.5°	504.8	519.1	560.8	608.3	631.3
55°	464.5	480.3	524.9	572.3	593.9
57.5°	421.4	440.0	487.5	533.5	558.0
60°	381.1	401.2	450.1	496.1	522.0
62.5°	340.8	362.4	414.2	460.2	484.6
65°	302.0	323.6	375.3	422.8	447.2
67.5°	263.2	287.6	337.9	385.4	409.8
70°	225.8	251.7	300.6	346.6	371.0
72.5°	189.8	215.7	264.6	307.7	322.1
75°	153.9	179.8	225.8	251.7	260.3
77.5°	120.8	145.2	185.5	201.3	212.8
80°	90.6	112.2	140.9	151.0	152.4
82.5°	61.8	80.5	97.8	99.2	97.8
85°	37.4	47.5	53.2	50.3	47.5
87.5°	17.3	18.7	17.3	11.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)