

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: P260483

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2897.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

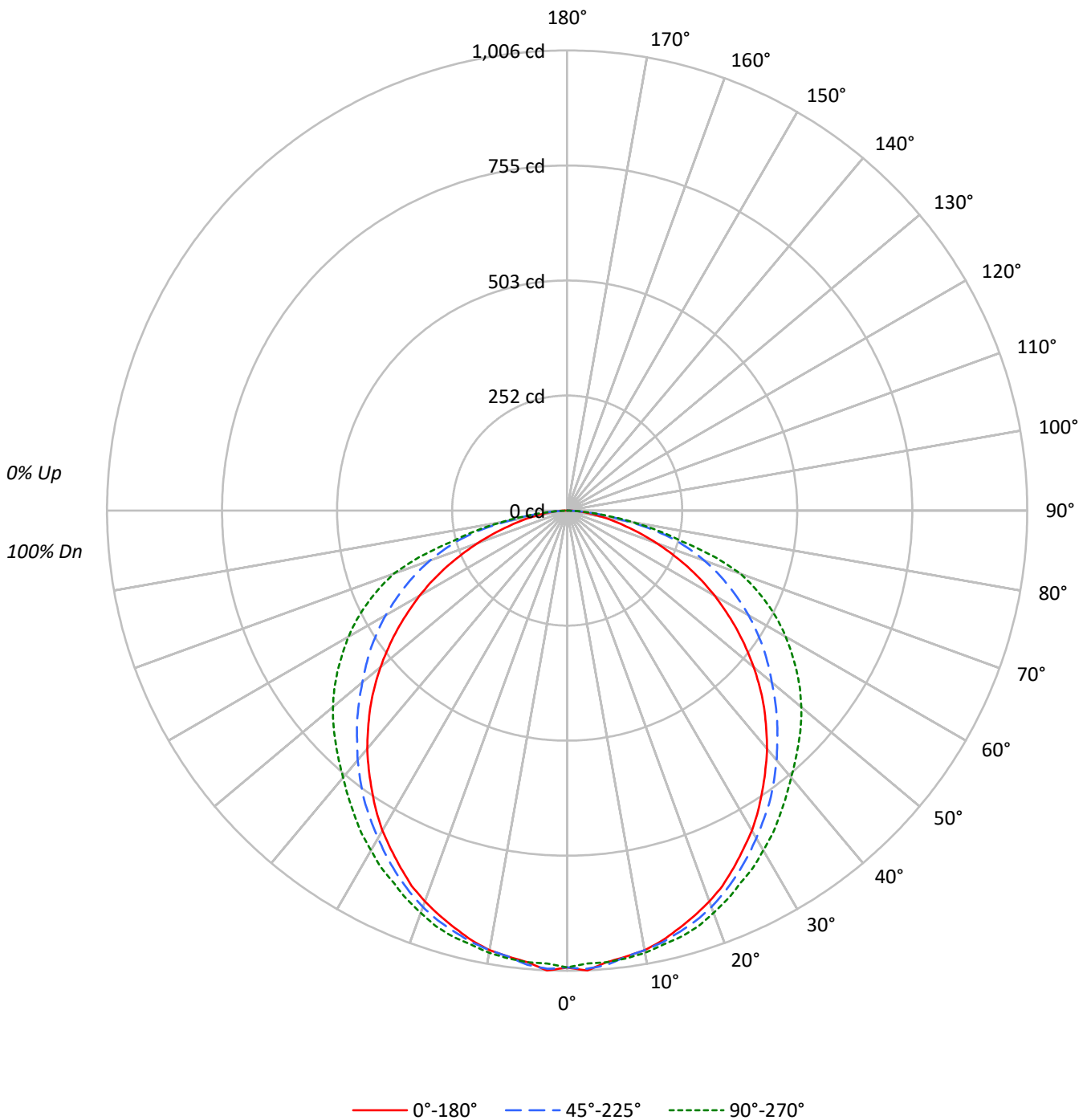
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2688	2688	2688
5°	2677	2693	2677
10°	2667	2667	2682
15°	2634	2655	2687
20°	2603	2641	2680
25°	2557	2608	2665
30°	2510	2569	2664
35°	2447	2541	2666
40°	2388	2502	2677
45°	2318	2471	2725
50°	2231	2447	2798
55°	2123	2455	2876
60°	2004	2467	2970
65°	1848	2481	3077
70°	1638	2509	3170
75°	1390	2502	2700
80°	1155	2013	2249
85°	1003	1355	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.3
10°-20°	269.2	9.3
20°-30°	405.0	14.0
30°-40°	485.3	16.8
40°-50°	506.1	17.5
50°-60°	471.2	16.3
60°-70°	382.6	13.2
70°-80°	230.6	8.0
80°-90°	52.9	1.8
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°	768.5	26.5
0°-40°	1253.8	43.3
0°-60°	2231.0	77.0
0°-90°	2897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	991	991	997	999	991	94
15°	945	949	953	959	964	267
25°	861	867	878	890	898	397
35°	745	754	773	796	812	466
45°	609	621	649	691	716	469
55°	453	472	523	581	613	405
65°	290	321	390	451	483	287
75°	134	178	241	256	260	144
85°	32	40	44	42	42	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.8	998.8	998.8	998.8	998.8
2.5°	1006.4	1004.5	1002.6	996.9	991.1
5°	991.1	991.1	996.9	998.8	991.1
7.5°	983.5	983.5	983.5	991.1	987.3
10°	975.9	975.9	975.9	981.6	981.6
12.5°	962.5	964.4	966.3	968.2	972.0
15°	945.3	949.1	952.9	958.7	964.4
17.5°	928.1	931.9	939.6	945.3	952.9
20°	909.0	912.8	922.4	928.1	935.8
22.5°	888.0	889.9	901.4	909.0	918.6
25°	861.3	867.0	878.5	889.9	897.6
27.5°	834.5	840.3	853.6	868.9	880.4
30°	807.8	813.5	826.9	846.0	857.5
32.5°	777.3	784.9	800.2	823.1	836.5
35°	744.8	754.3	773.4	796.3	811.6
37.5°	712.3	721.9	742.9	771.5	786.8
40°	679.9	689.4	712.3	742.9	762.0
42.5°	643.6	655.0	679.9	716.1	739.1
45°	609.2	620.7	649.3	691.3	716.1
47.5°	571.0	584.4	616.8	664.6	693.2
50°	532.8	548.1	584.4	637.8	668.4
52.5°	492.7	509.9	553.8	609.2	641.7
55°	452.6	471.7	523.3	580.6	613.0
57.5°	412.5	433.5	490.8	550.0	582.5
60°	372.4	395.3	458.3	519.4	551.9
62.5°	332.3	357.1	424.0	485.1	519.4
65°	290.3	320.8	389.6	450.7	483.2
67.5°	248.3	284.5	355.2	414.4	445.0
70°	208.2	248.3	318.9	374.3	402.9
72.5°	170.0	212.0	280.7	328.5	339.9
75°	133.7	177.6	240.6	255.9	259.7
77.5°	103.1	143.2	191.0	194.8	204.3
80°	74.5	108.9	129.9	141.3	145.1
82.5°	51.6	74.5	85.9	87.8	89.8
85°	32.5	40.1	43.9	42.0	42.0
87.5°	17.2	15.3	13.4	9.5	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)