

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: P260405

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260405
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-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

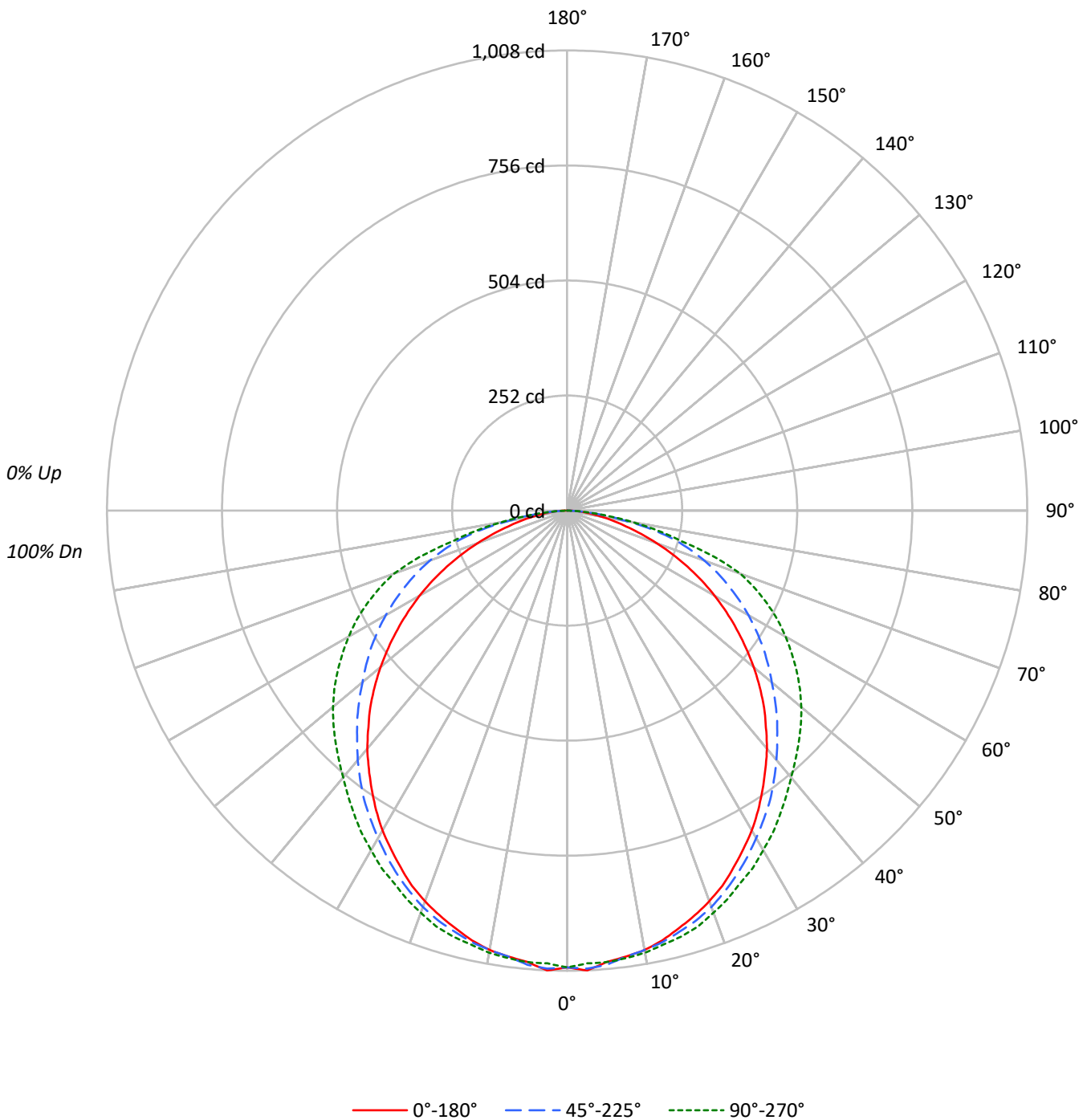
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2692	2692	2692
5°	2682	2697	2682
10°	2671	2671	2687
15°	2638	2659	2691
20°	2608	2646	2684
25°	2562	2613	2670
30°	2514	2574	2669
35°	2451	2545	2671
40°	2392	2507	2681
45°	2322	2475	2730
50°	2234	2451	2803
55°	2127	2459	2881
60°	2007	2471	2976
65°	1852	2485	3082
70°	1640	2514	3175
75°	1392	2506	2705
80°	1156	2016	2253
85°	1003	1359	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.3
10°-20°	269.6	9.3
20°-30°	405.7	14.0
30°-40°	486.1	16.8
40°-50°	506.9	17.5
50°-60°	472.0	16.3
60°-70°	383.2	13.2
70°-80°	230.9	8.0
80°-90°	53.0	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°	769.8	26.5
0°-40°	1255.9	43.3
0°-60°	2234.9	77.0
0°-90°	2902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	993	993	999	1000	993	94
15°	947	951	955	960	966	267
25°	863	868	880	892	899	398
35°	746	756	775	798	813	467
45°	610	622	650	692	717	470
55°	453	472	524	582	614	405
65°	291	321	390	452	484	288
75°	134	178	241	256	260	145
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°	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1008.2	1006.2	1004.3	998.6	992.8
5°	992.8	992.8	998.6	1000.5	992.8
7.5°	985.2	985.2	985.2	992.8	989.0
10°	977.5	977.5	977.5	983.3	983.3
12.5°	964.2	966.1	968.0	969.9	973.7
15°	946.9	950.8	954.6	960.3	966.1
17.5°	929.7	933.5	941.2	946.9	954.6
20°	910.6	914.4	924.0	929.7	937.4
22.5°	889.5	891.5	902.9	910.6	920.2
25°	862.8	868.5	880.0	891.5	899.1
27.5°	836.0	841.7	855.1	870.4	881.9
30°	809.2	814.9	828.3	847.5	858.9
32.5°	778.6	786.2	801.5	824.5	837.9
35°	746.1	755.6	774.8	797.7	813.0
37.5°	713.6	723.1	744.2	772.9	788.2
40°	681.0	690.6	713.6	744.2	763.3
42.5°	644.7	656.2	681.0	717.4	740.3
45°	610.2	621.7	650.4	692.5	717.4
47.5°	572.0	585.4	617.9	665.7	694.4
50°	533.7	549.0	585.4	638.9	669.6
52.5°	493.6	510.8	554.8	610.2	642.8
55°	453.4	472.5	524.2	581.6	614.1
57.5°	413.2	434.3	491.6	550.9	583.5
60°	373.0	396.0	459.1	520.3	552.9
62.5°	332.9	357.7	424.7	485.9	520.3
65°	290.8	321.4	390.3	451.5	484.0
67.5°	248.7	285.0	355.8	415.1	445.7
70°	208.5	248.7	319.5	374.9	403.6
72.5°	170.3	212.3	281.2	329.0	340.5
75°	133.9	177.9	241.0	256.3	260.2
77.5°	103.3	143.5	191.3	195.1	204.7
80°	74.6	109.0	130.1	141.6	145.4
82.5°	51.7	74.6	86.1	88.0	89.9
85°	32.5	40.2	44.0	42.1	42.1
87.5°	17.2	15.3	13.4	9.6	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)