

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: P260406

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260406
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-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: 3047.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

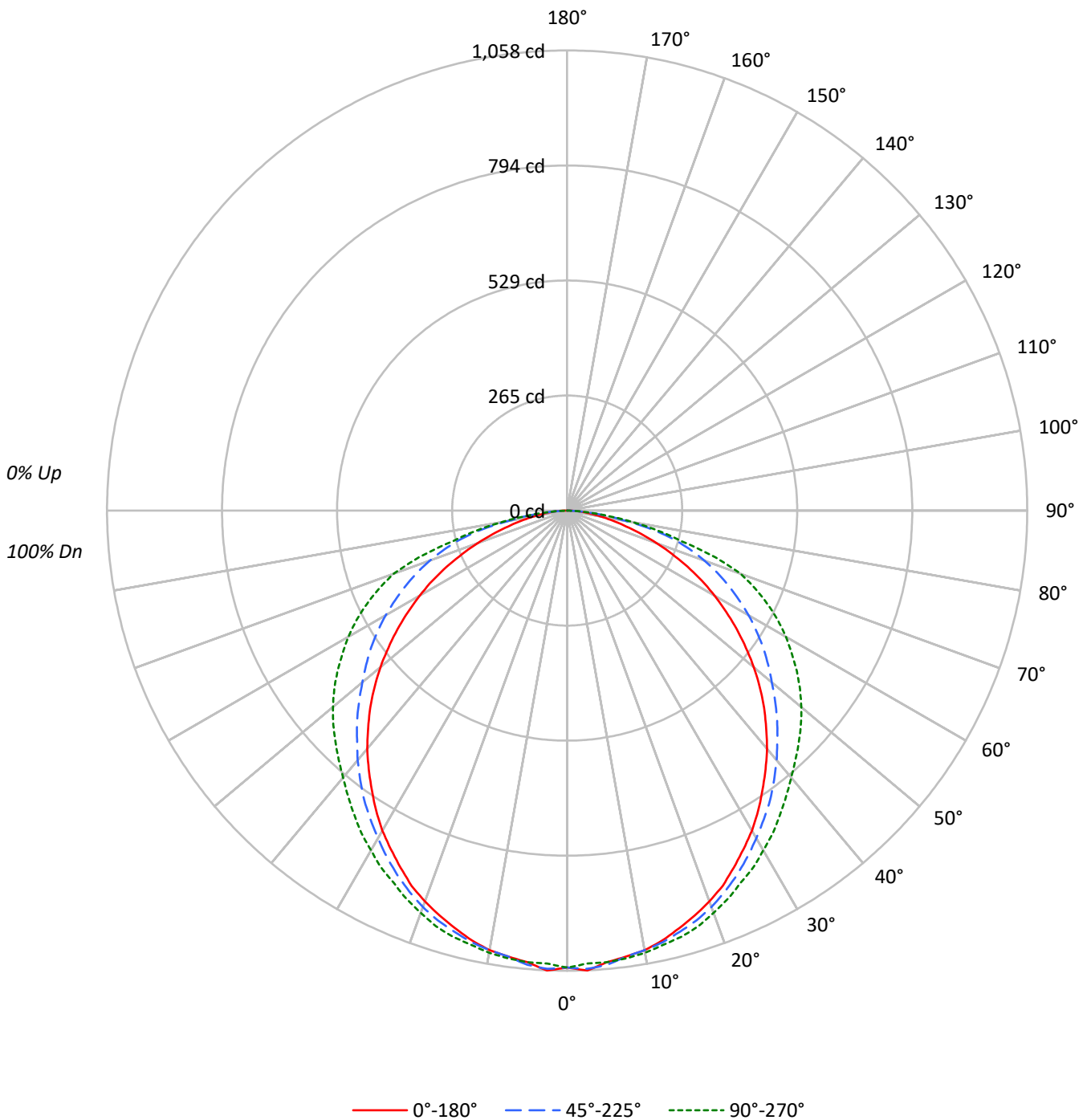
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2816	2832	2816
10°	2805	2805	2821
15°	2770	2792	2826
20°	2738	2778	2818
25°	2690	2744	2803
30°	2640	2702	2802
35°	2573	2672	2804
40°	2512	2632	2815
45°	2438	2599	2866
50°	2346	2573	2943
55°	2233	2582	3025
60°	2108	2595	3124
65°	1944	2609	3236
70°	1722	2639	3334
75°	1462	2632	2840
80°	1213	2117	2366
85°	1053	1426	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.3
10°-20°	283.1	9.3
20°-30°	425.9	14.0
30°-40°	510.4	16.8
40°-50°	532.3	17.5
50°-60°	495.6	16.3
60°-70°	402.4	13.2
70°-80°	242.5	8.0
80°-90°	55.6	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°	808.3	26.5
0°-40°	1318.7	43.3
0°-60°	2346.5	77.0
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1042	1042	1048	1050	1042	99
15°	994	998	1002	1008	1014	281
25°	906	912	924	936	944	417
35°	783	793	814	838	854	490
45°	641	653	683	727	753	493
55°	476	496	550	611	645	426
65°	305	337	410	474	508	302
75°	141	187	253	269	273	152
85°	34	42	46	44	44	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1058.5	1056.5	1054.5	1048.5	1042.5
5°	1042.5	1042.5	1048.5	1050.5	1042.5
7.5°	1034.4	1034.4	1034.4	1042.5	1038.4
10°	1026.4	1026.4	1026.4	1032.4	1032.4
12.5°	1012.3	1014.3	1016.3	1018.4	1022.4
15°	994.3	998.3	1002.3	1008.3	1014.3
17.5°	976.2	980.2	988.2	994.3	1002.3
20°	956.1	960.1	970.1	976.2	984.2
22.5°	934.0	936.0	948.1	956.1	966.1
25°	905.9	911.9	924.0	936.0	944.0
27.5°	877.8	883.8	897.8	913.9	926.0
30°	849.6	855.7	869.7	889.8	901.9
32.5°	817.5	825.5	841.6	865.7	879.8
35°	783.3	793.4	813.5	837.6	853.6
37.5°	749.2	759.2	781.3	811.5	827.5
40°	715.1	725.1	749.2	781.3	801.4
42.5°	676.9	688.9	715.1	753.2	777.3
45°	640.7	652.8	682.9	727.1	753.2
47.5°	600.6	614.6	648.8	699.0	729.1
50°	560.4	576.5	614.6	670.9	703.0
52.5°	518.2	536.3	582.5	640.7	674.9
55°	476.0	496.1	550.4	610.6	644.8
57.5°	433.9	455.9	516.2	578.5	612.6
60°	391.7	415.8	482.1	546.3	580.5
62.5°	349.5	375.6	445.9	510.2	546.3
65°	305.3	337.4	409.8	474.0	508.2
67.5°	261.1	299.3	373.6	435.9	468.0
70°	218.9	261.1	335.4	393.7	423.8
72.5°	178.8	223.0	295.3	345.5	357.5
75°	140.6	186.8	253.1	269.2	273.2
77.5°	108.5	150.6	200.9	204.9	214.9
80°	78.3	114.5	136.6	148.6	152.7
82.5°	54.2	78.3	90.4	92.4	94.4
85°	34.1	42.2	46.2	44.2	44.2
87.5°	18.1	16.1	14.1	10.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)