

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: P259422

Luminaire Tested: **22CZ-LD5-34-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259422
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-LD5-34-S-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2979.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

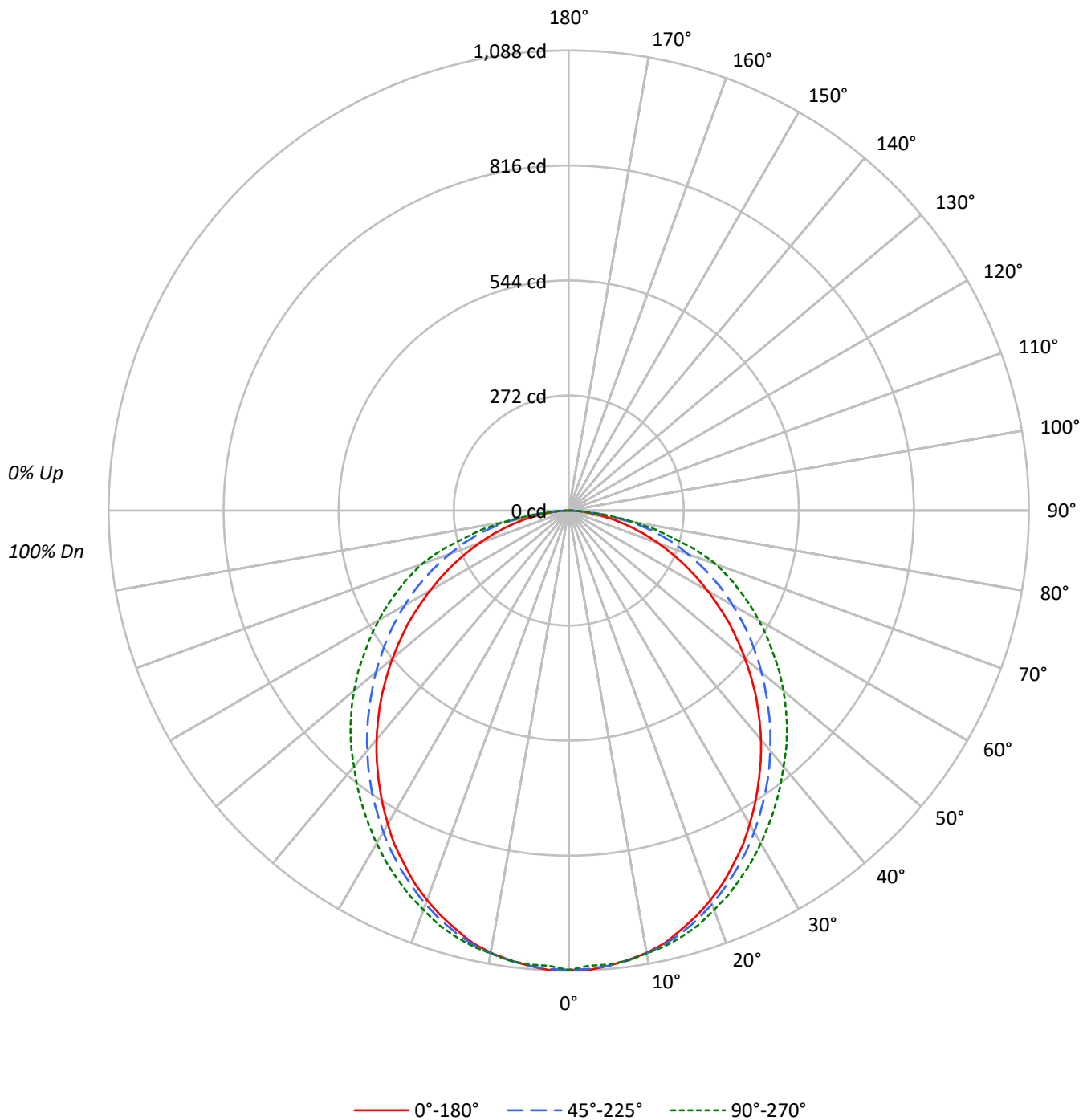
Input Watts (W): 26.155692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2918	2918	2910
10°	2901	2905	2905
15°	2858	2878	2902
20°	2807	2836	2877
25°	2736	2783	2851
30°	2659	2725	2823
35°	2571	2665	2797
40°	2483	2604	2774
45°	2385	2543	2777
50°	2276	2492	2774
55°	2168	2450	2772
60°	2041	2411	2795
65°	1913	2378	2833
70°	1767	2353	2905
75°	1592	2335	2693
80°	1396	2173	2351
85°	1149	1633	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.4
10°-20°	291.3	9.8
20°-30°	432.7	14.5
30°-40°	509.3	17.1
40°-50°	519.3	17.4
50°-60°	468.3	15.7
60°-70°	368.9	12.4
70°-80°	227.5	7.6
80°-90°	59.1	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°	826.6	27.7
0°-40°	1335.9	44.8
0°-60°	2323.5	78.0
0°-90°	2979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1080	1082	1080	1079	1077	103
15°	1026	1030	1033	1039	1042	289
25°	922	927	937	953	960	425
35°	783	791	811	837	851	490
45°	627	637	668	708	730	483
55°	462	478	522	570	591	412
65°	300	322	374	421	445	298
75°	153	179	225	250	259	163
85°	37	47	53	50	47	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.0	1086.0	1086.0	1086.0	1086.0
2.5°	1087.5	1087.5	1084.6	1081.7	1077.4
5°	1080.3	1081.7	1080.3	1078.9	1077.4
7.5°	1071.7	1073.1	1073.1	1073.1	1073.1
10°	1061.7	1063.1	1063.1	1063.1	1063.1
12.5°	1047.4	1048.8	1050.3	1051.7	1054.5
15°	1025.9	1030.2	1033.1	1038.8	1041.7
17.5°	1004.5	1008.8	1013.0	1020.2	1025.9
20°	980.1	983.0	990.2	998.7	1004.5
22.5°	953.0	957.2	964.4	975.8	984.4
25°	921.5	927.2	937.2	953.0	960.1
27.5°	891.4	895.7	908.6	925.8	935.8
30°	855.7	861.4	877.1	898.6	908.6
32.5°	819.9	827.0	844.2	868.5	880.0
35°	782.7	791.3	811.3	837.1	851.4
37.5°	745.5	754.1	777.0	805.6	821.3
40°	706.8	715.4	741.2	772.7	789.8
42.5°	666.8	676.8	705.4	741.2	761.2
45°	626.7	636.7	668.2	708.3	729.7
47.5°	585.2	596.7	631.0	675.4	696.8
50°	543.7	556.6	595.2	641.0	662.5
52.5°	502.2	516.5	558.0	605.3	628.1
55°	462.2	477.9	522.3	569.5	590.9
57.5°	419.2	437.8	485.1	530.8	555.2
60°	379.2	399.2	447.9	493.6	519.4
62.5°	339.1	360.6	412.1	457.9	482.2
65°	300.5	321.9	373.5	420.7	445.0
67.5°	261.8	286.2	336.3	383.5	407.8
70°	224.6	250.4	299.0	344.8	369.2
72.5°	188.9	214.6	263.3	306.2	320.5
75°	153.1	178.9	224.6	250.4	259.0
77.5°	120.2	144.5	184.6	200.3	211.8
80°	90.1	111.6	140.2	150.2	151.7
82.5°	61.5	80.1	97.3	98.7	97.3
85°	37.2	47.2	52.9	50.1	47.2
87.5°	17.2	18.6	17.2	11.4	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)