

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: P259520

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259520
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-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

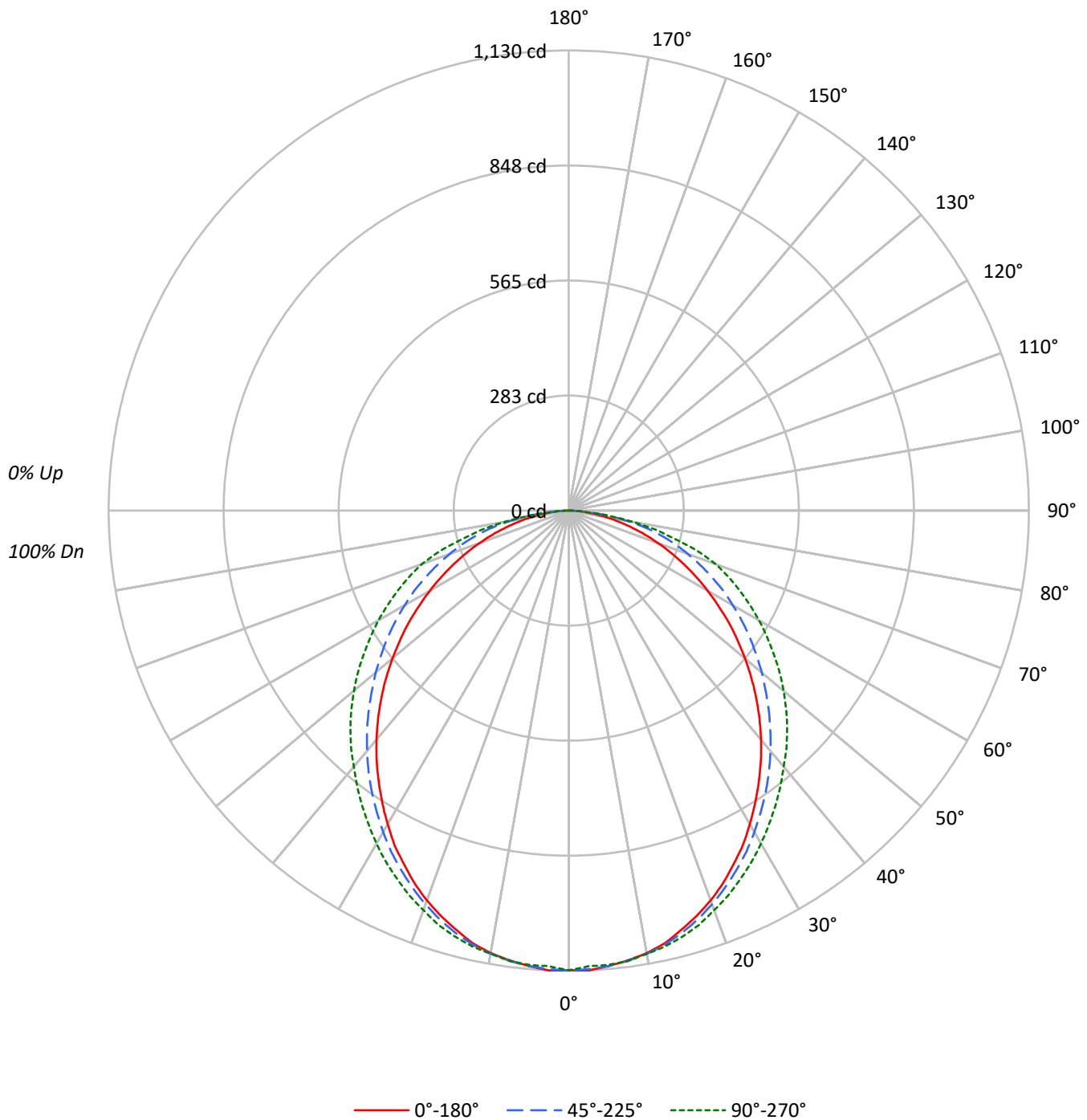
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3037	3037	3037
5°	3033	3033	3025
10°	3015	3019	3019
15°	2970	2991	3016
20°	2917	2947	2989
25°	2844	2892	2963
30°	2763	2833	2934
35°	2672	2770	2907
40°	2581	2706	2884
45°	2479	2643	2886
50°	2366	2590	2882
55°	2253	2547	2882
60°	2121	2505	2905
65°	1989	2471	2945
70°	1837	2445	3019
75°	1654	2428	2799
80°	1452	2258	2442
85°	1195	1698	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	3.4
10°-20°	302.8	9.8
20°-30°	449.7	14.5
30°-40°	529.3	17.1
40°-50°	539.7	17.4
50°-60°	486.7	15.7
60°-70°	383.4	12.4
70°-80°	236.5	7.6
80°-90°	61.4	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°	859.1	27.7
0°-40°	1388.4	44.8
0°-60°	2414.8	78.0
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1123	1124	1123	1121	1120	107
15°	1066	1071	1074	1080	1083	301
25°	958	964	974	990	998	441
35°	813	822	843	870	885	509
45°	651	662	694	736	758	502
55°	480	497	543	592	614	429
65°	312	335	388	437	462	309
75°	159	186	234	260	269	170
85°	39	49	55	52	49	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1130.2	1130.2	1127.2	1124.2	1119.8
5°	1122.7	1124.2	1122.7	1121.2	1119.8
7.5°	1113.8	1115.3	1115.3	1115.3	1115.3
10°	1103.4	1104.9	1104.9	1104.9	1104.9
12.5°	1088.5	1090.0	1091.5	1093.0	1096.0
15°	1066.2	1070.7	1073.7	1079.6	1082.6
17.5°	1043.9	1048.4	1052.8	1060.3	1066.2
20°	1018.6	1021.6	1029.0	1038.0	1043.9
22.5°	990.4	994.8	1002.3	1014.2	1023.1
25°	957.7	963.6	974.0	990.4	997.8
27.5°	926.4	930.9	944.3	962.1	972.5
30°	889.3	895.2	911.6	933.9	944.3
32.5°	852.1	859.5	877.4	902.6	914.5
35°	813.4	822.3	843.2	869.9	884.8
37.5°	774.8	783.7	807.5	837.2	853.6
40°	734.6	743.5	770.3	803.0	820.9
42.5°	693.0	703.4	733.1	770.3	791.1
45°	651.3	661.7	694.5	736.1	758.4
47.5°	608.2	620.1	655.8	701.9	724.2
50°	565.1	578.5	618.6	666.2	688.5
52.5°	522.0	536.8	580.0	629.0	652.8
55°	480.3	496.7	542.8	591.8	614.2
57.5°	435.7	455.0	504.1	551.7	577.0
60°	394.1	414.9	465.4	513.0	539.8
62.5°	352.4	374.7	428.3	475.9	501.1
65°	312.3	334.6	388.1	437.2	462.5
67.5°	272.1	297.4	349.5	398.5	423.8
70°	233.5	260.2	310.8	358.4	383.7
72.5°	196.3	223.1	273.6	318.2	333.1
75°	159.1	185.9	233.5	260.2	269.2
77.5°	124.9	150.2	191.8	208.2	220.1
80°	93.7	116.0	145.7	156.1	157.6
82.5°	63.9	83.3	101.1	102.6	101.1
85°	38.7	49.1	55.0	52.0	49.1
87.5°	17.8	19.3	17.8	11.9	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)